

FIG 1

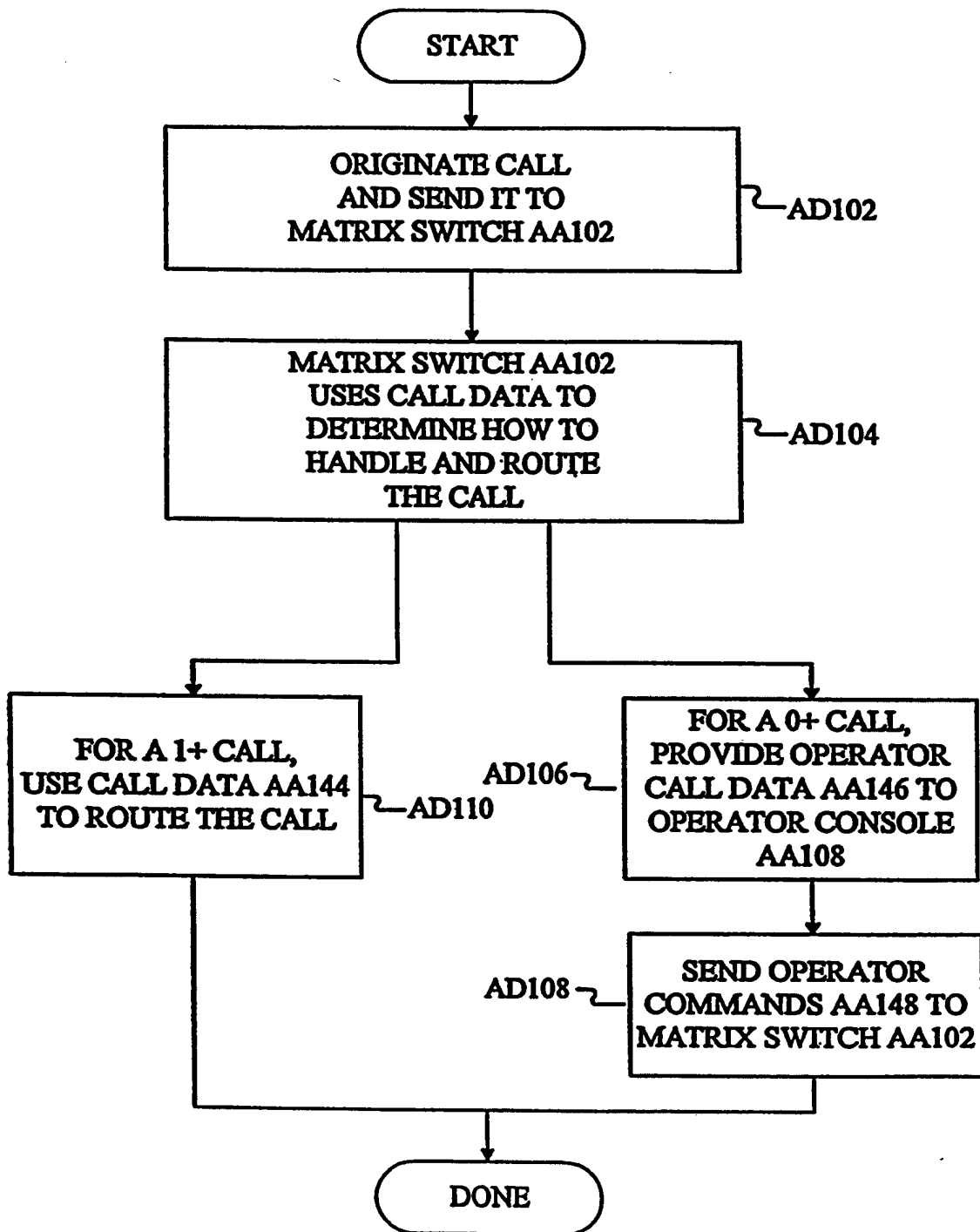


FIG 2

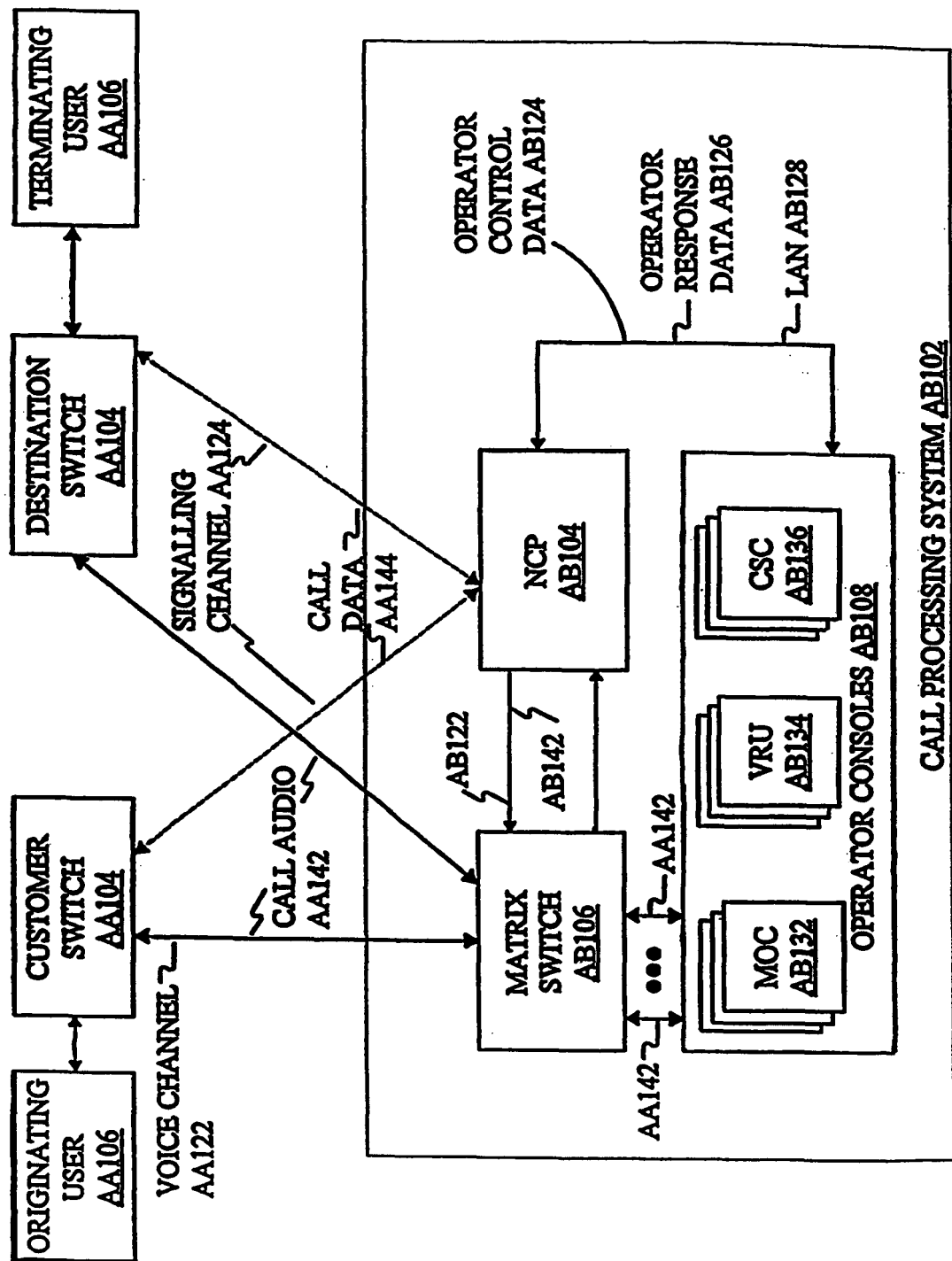


FIG 3

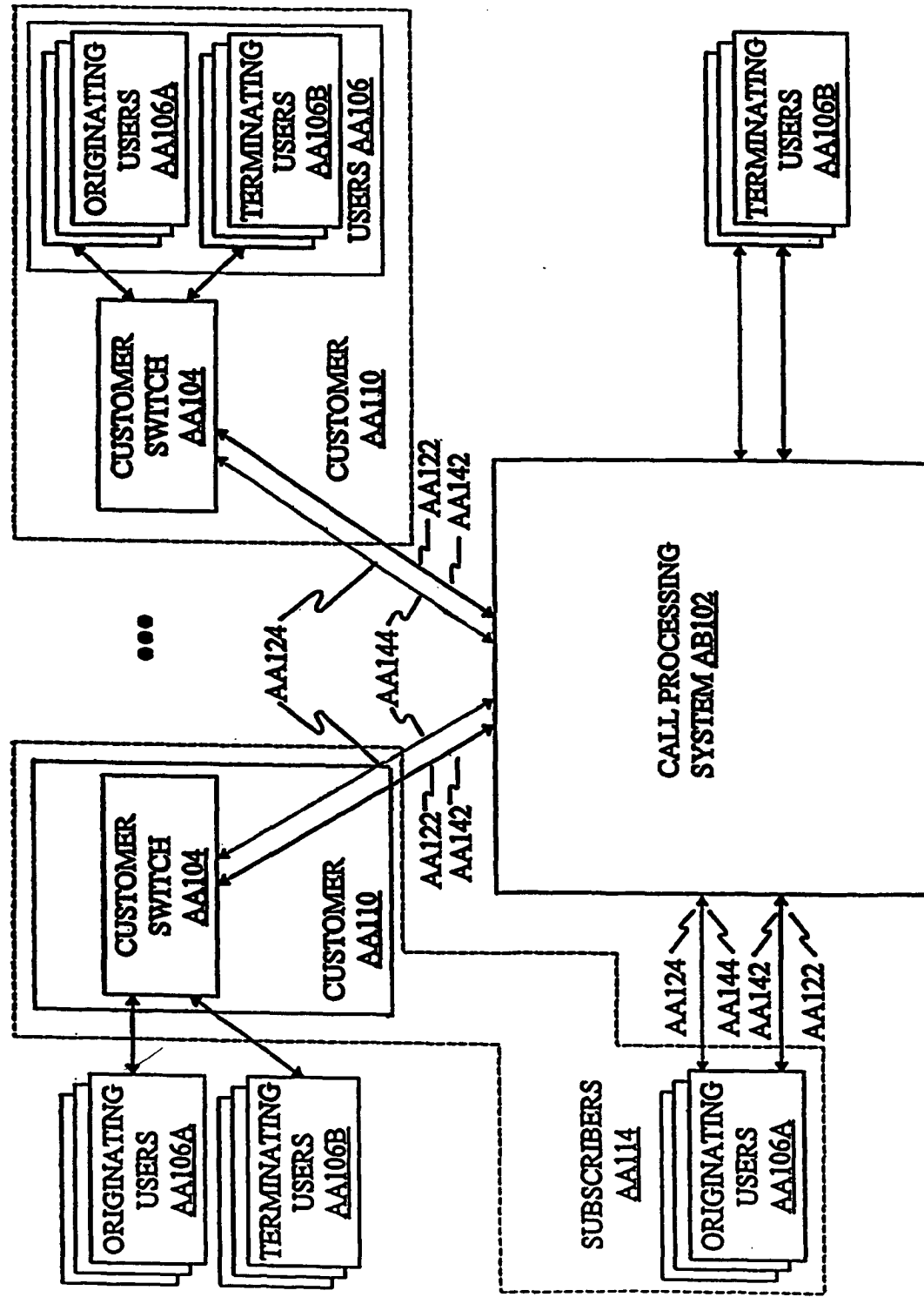


FIG 4

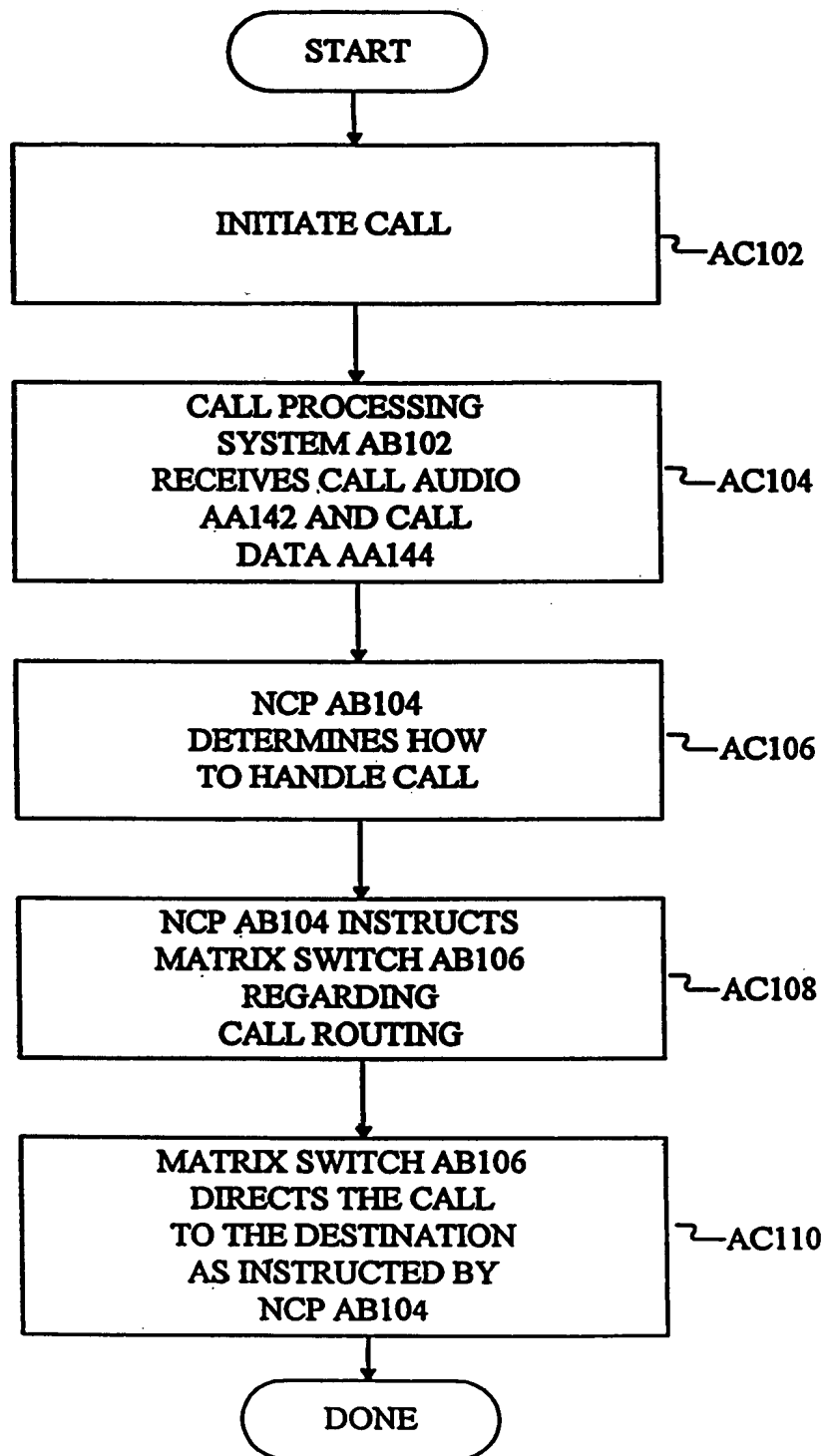


FIG 5



**FIG 7**

**FIG 8**

**FIG 6**

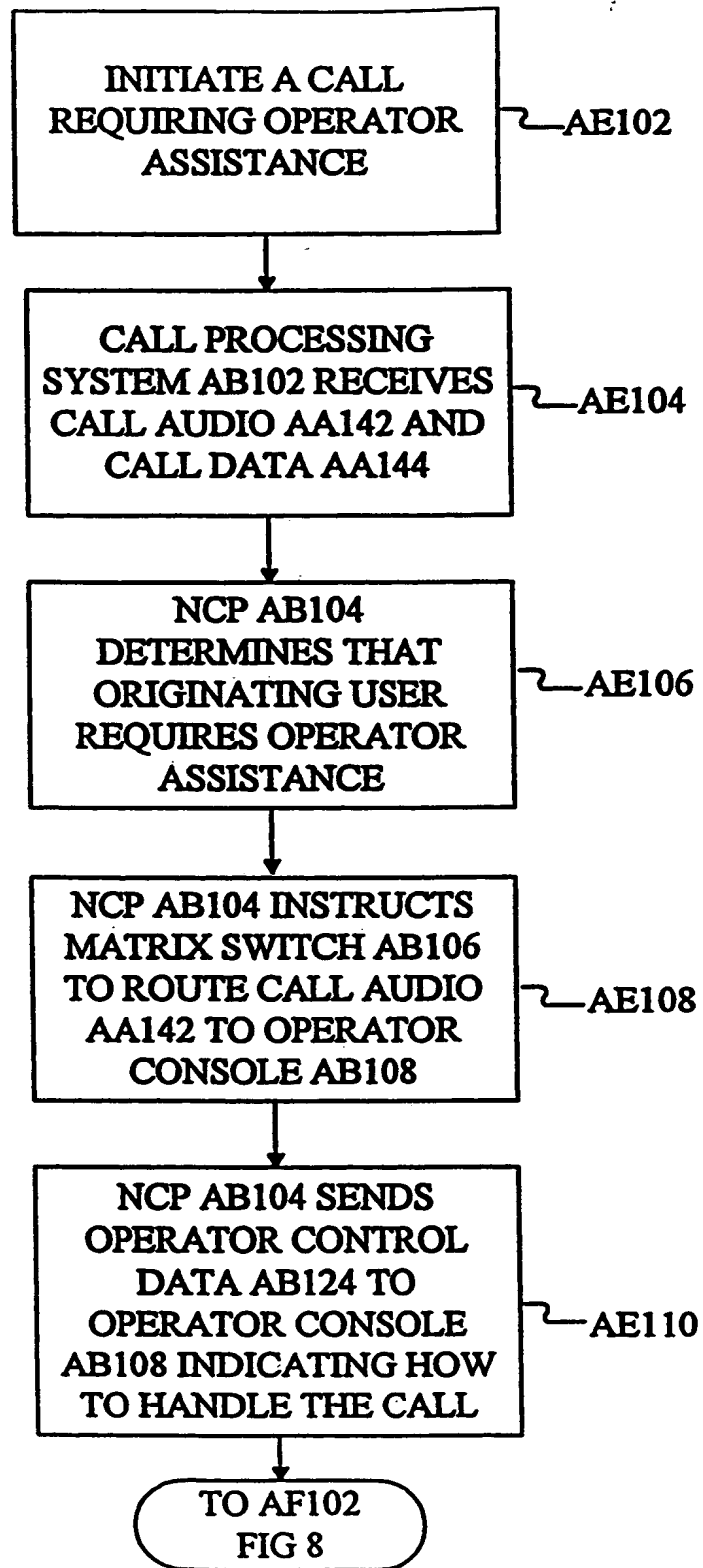


FIG 7

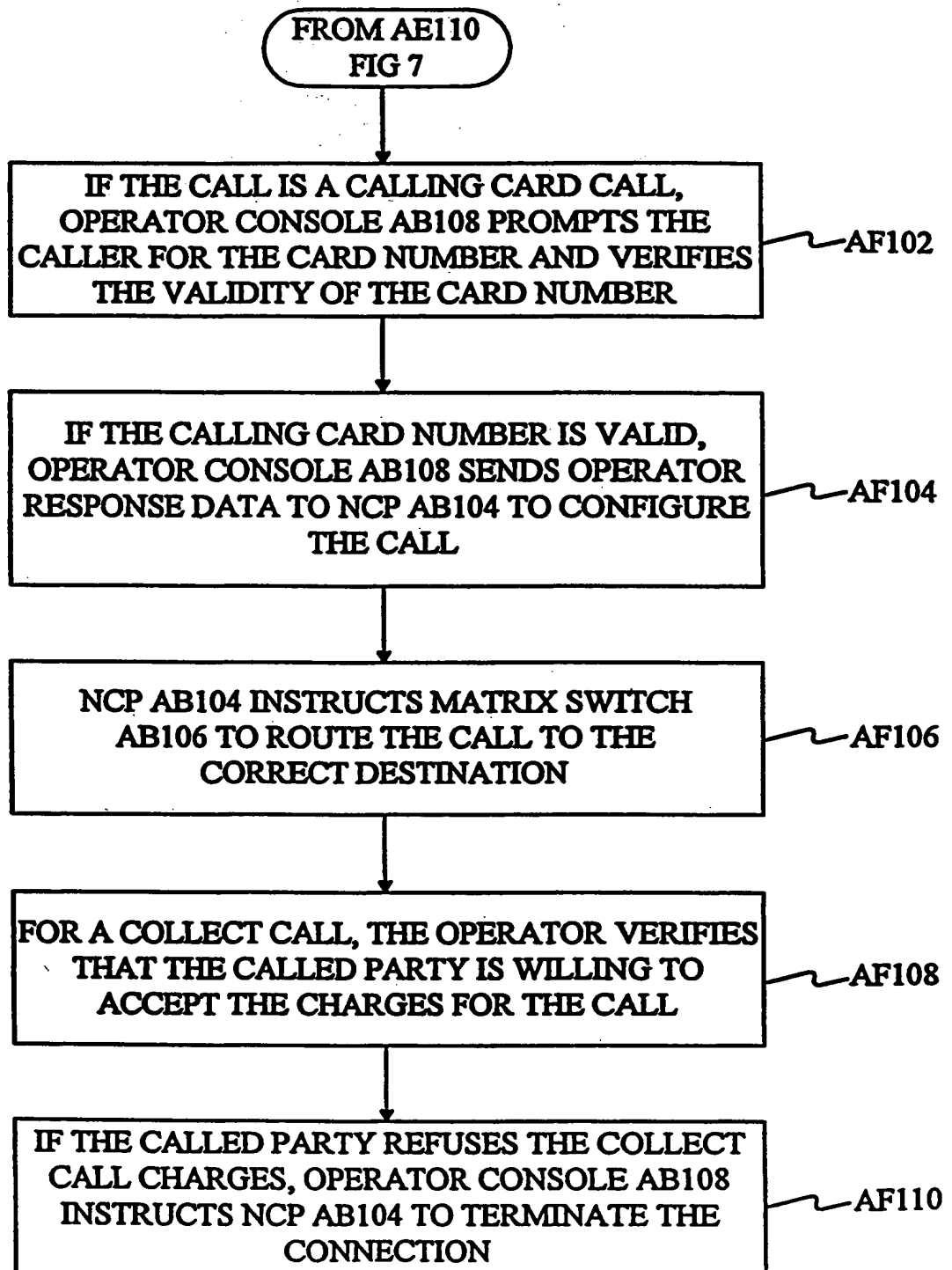


FIG 8



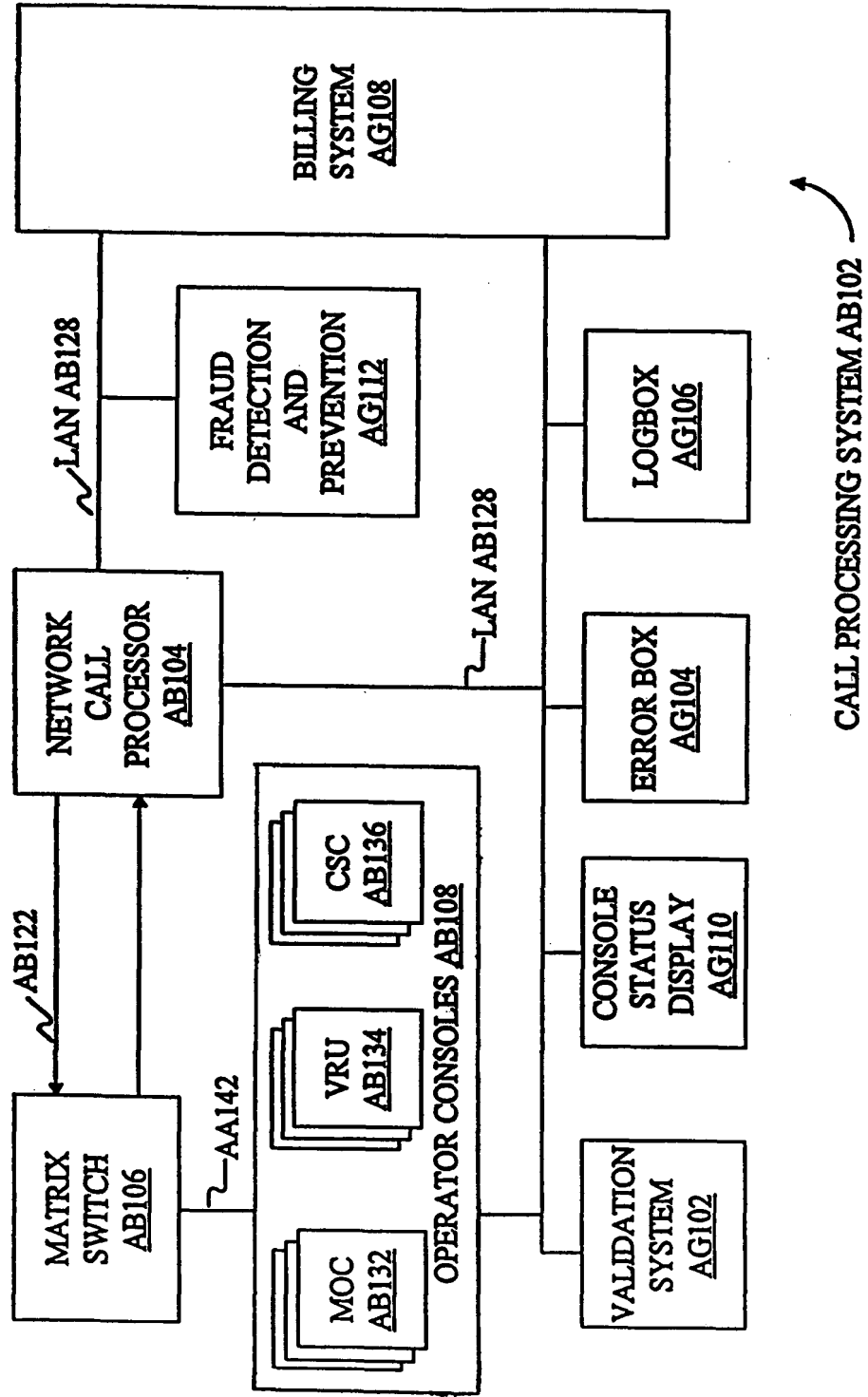


FIG 9

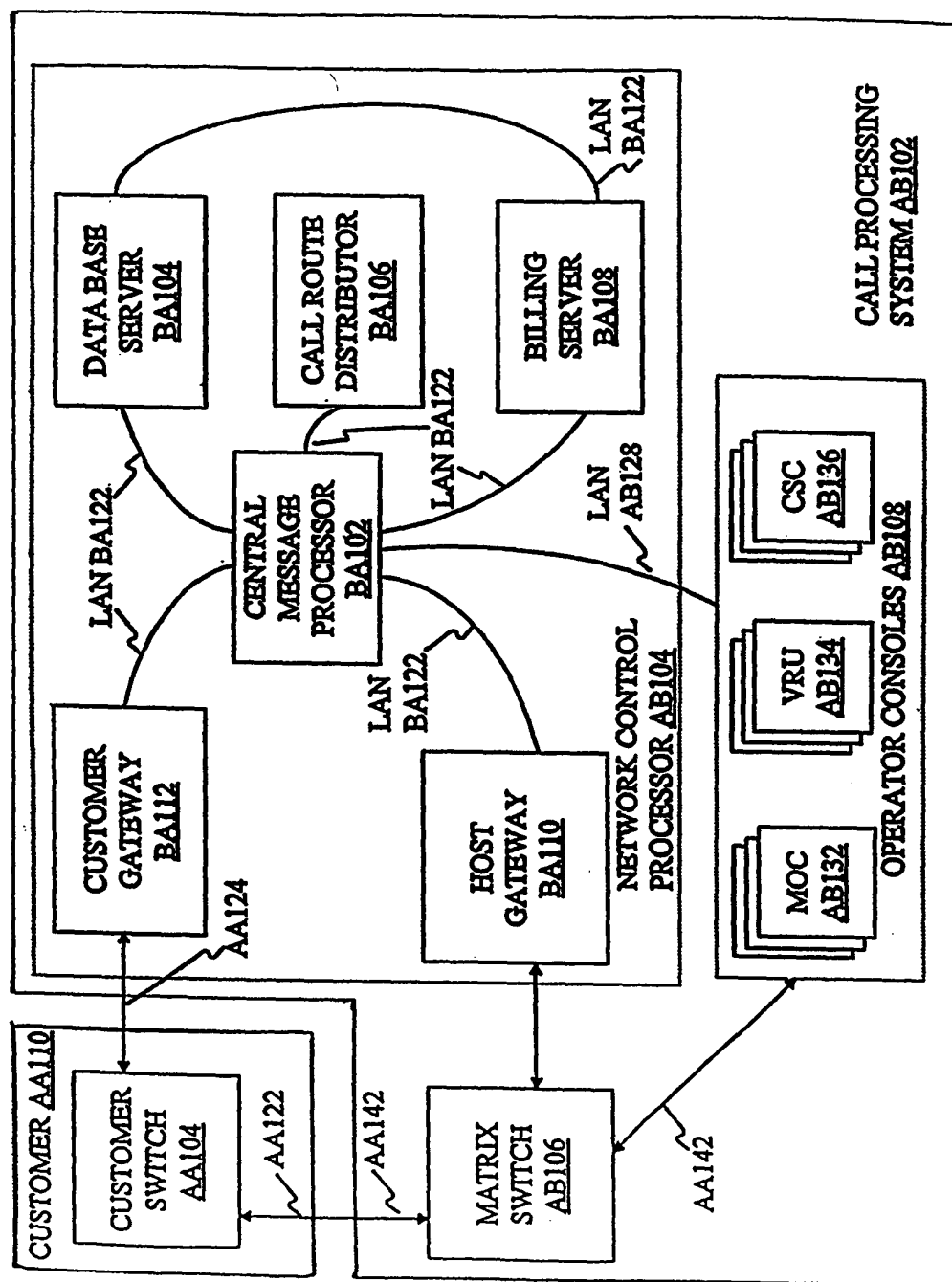


FIG 10



**FIG 12**

**FIG 13**

**FIG 11**

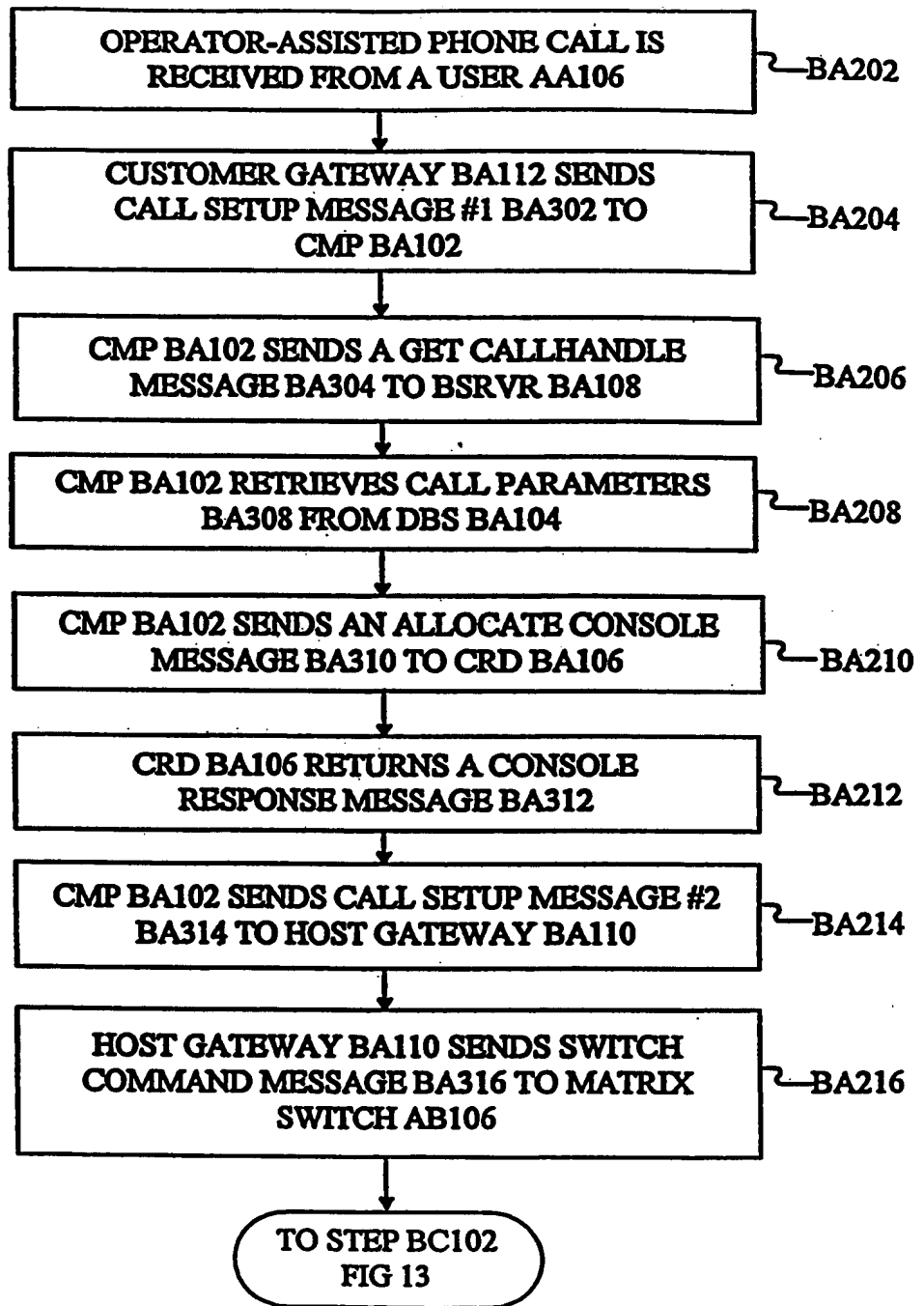


FIG 12

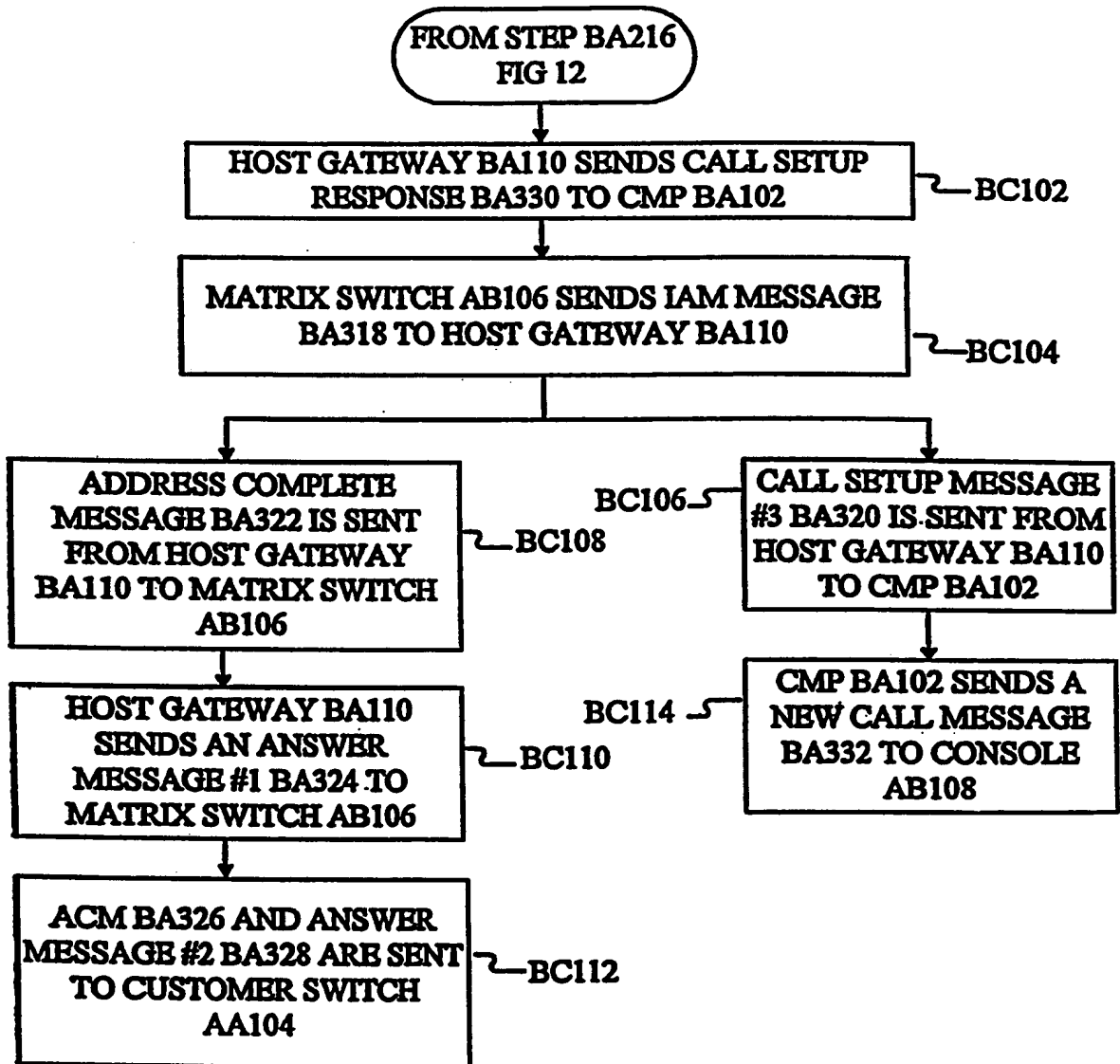


FIG 13

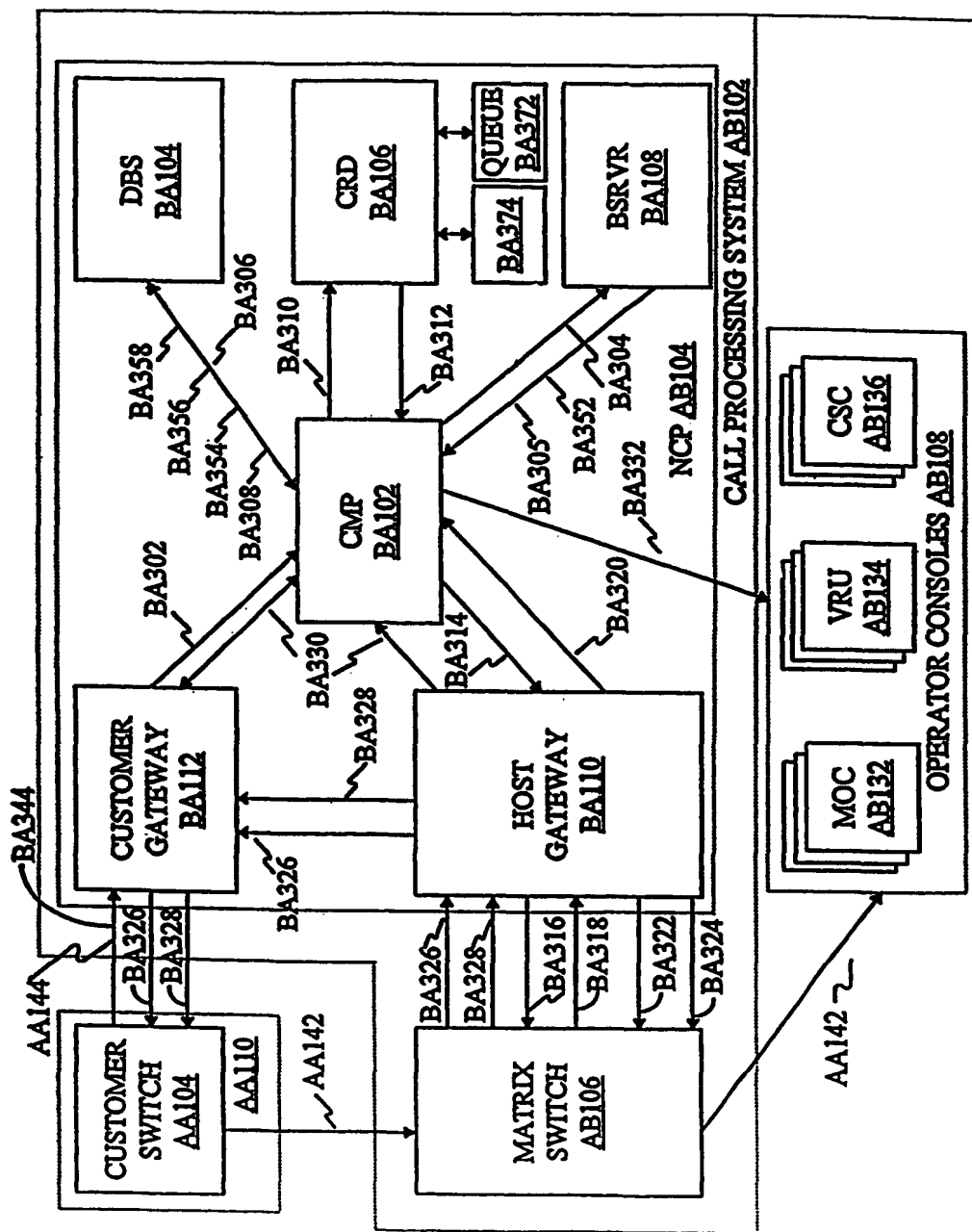


FIG 14

<b>FIG 16</b>	<b>FIG 17</b>
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**FIG 15**

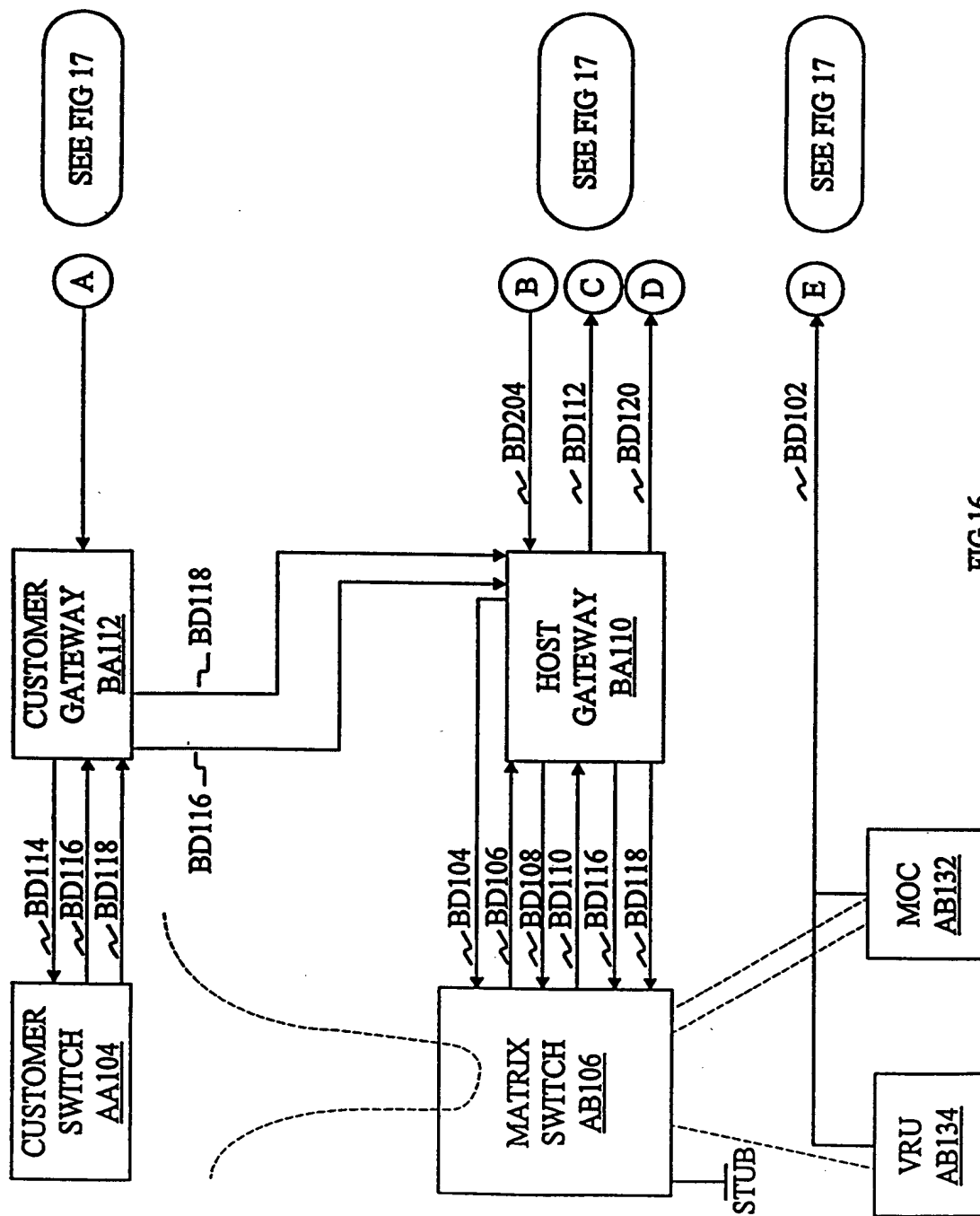


FIG 16



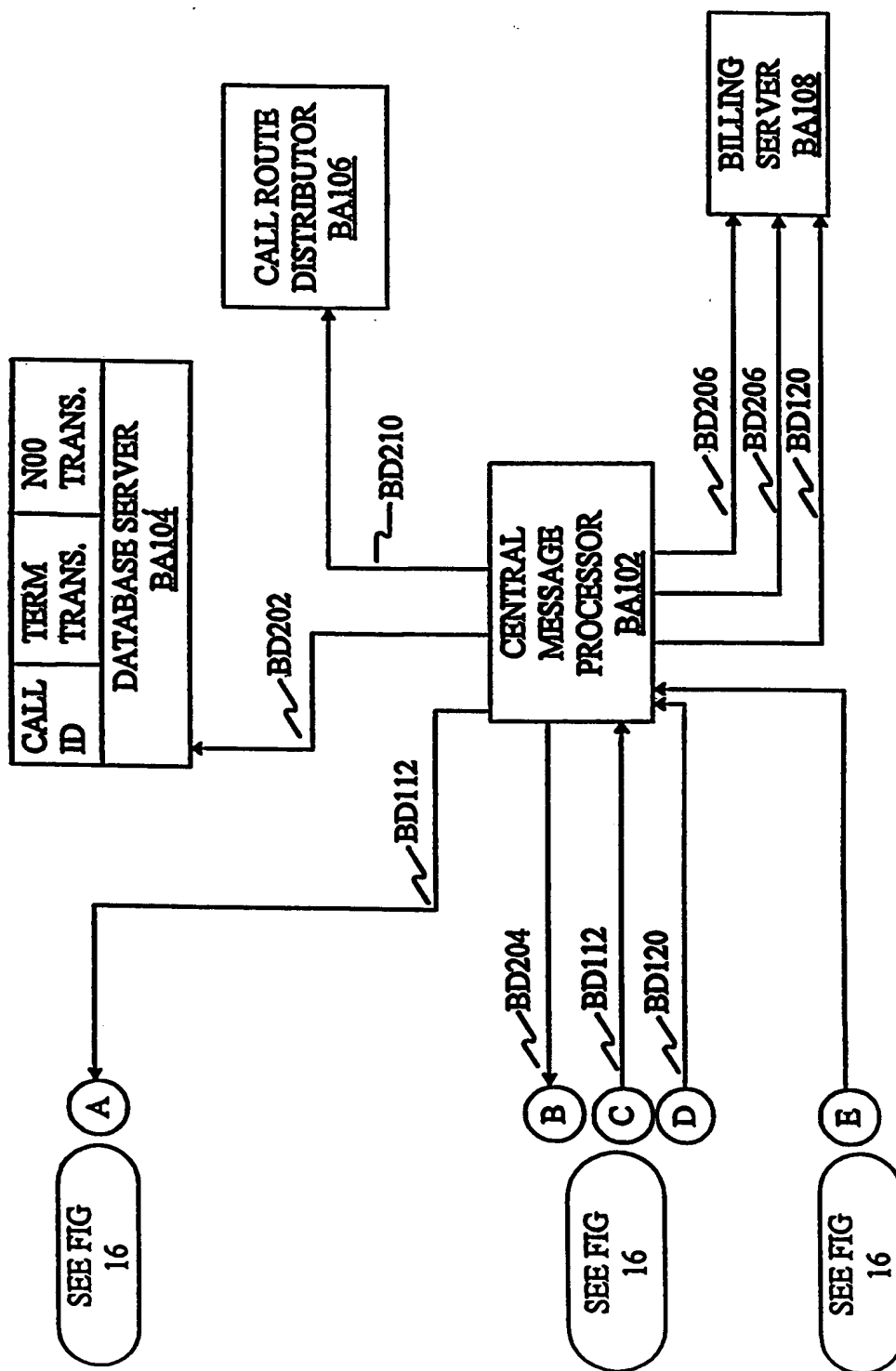


FIG 17

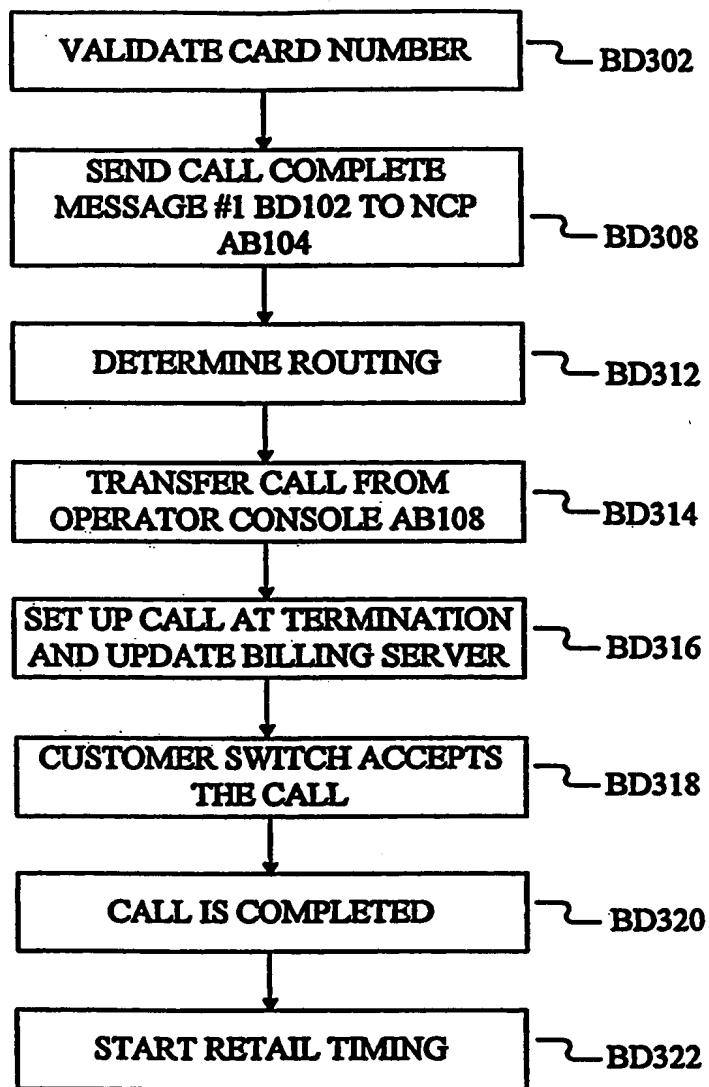


FIG 18

**FIG 20**

**FIG 21**

**FIG 19**

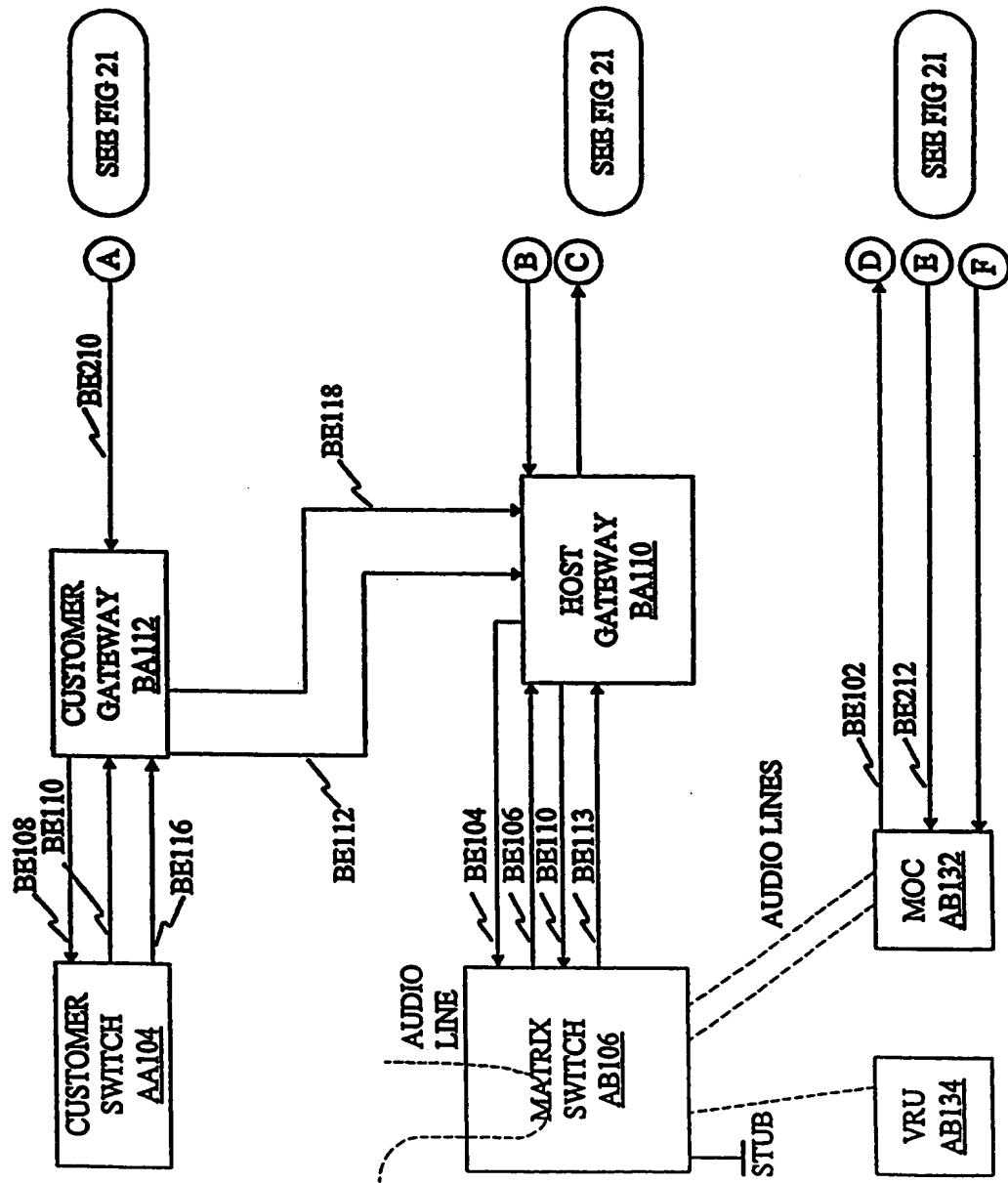


FIG 20

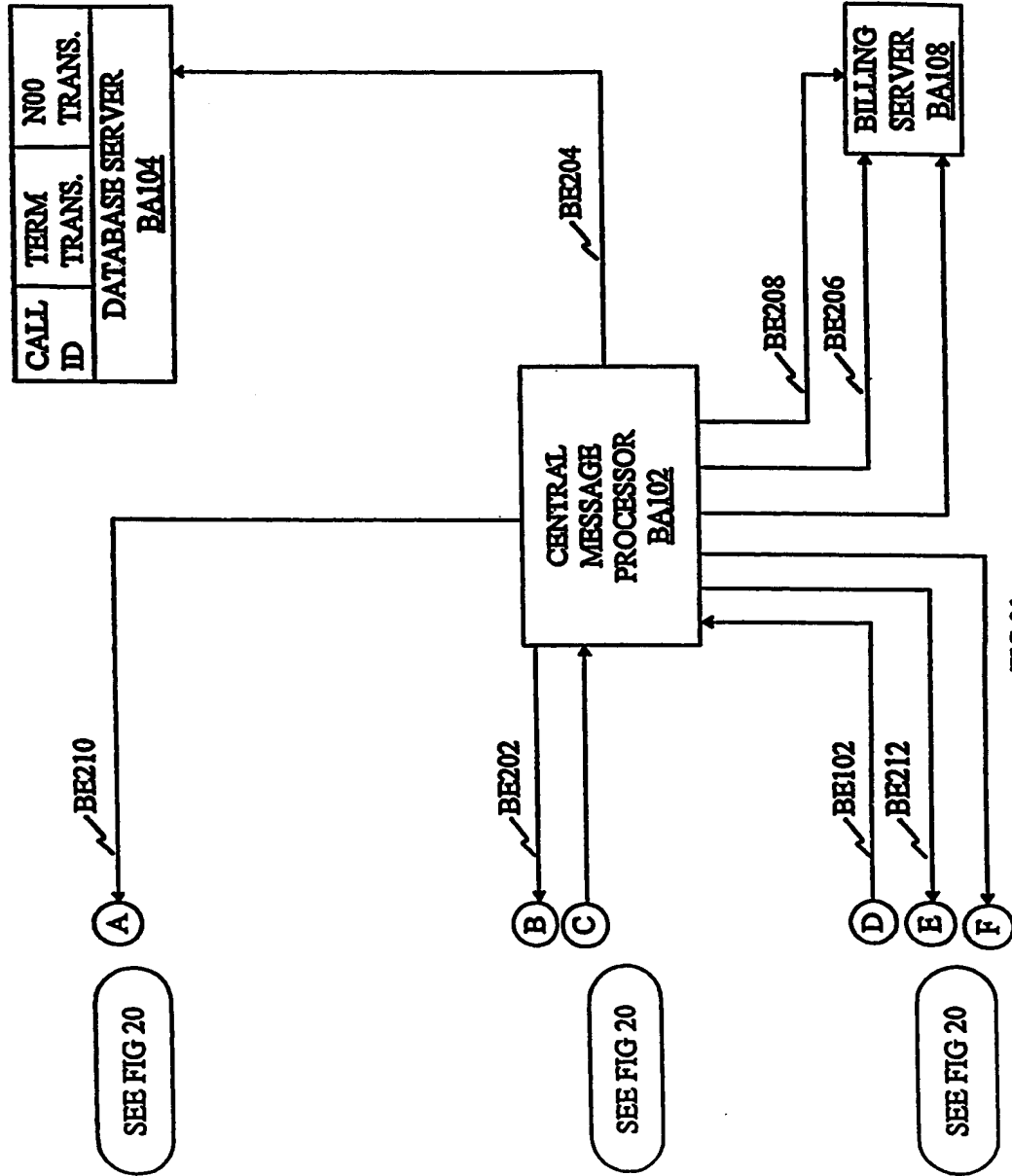


FIG 21

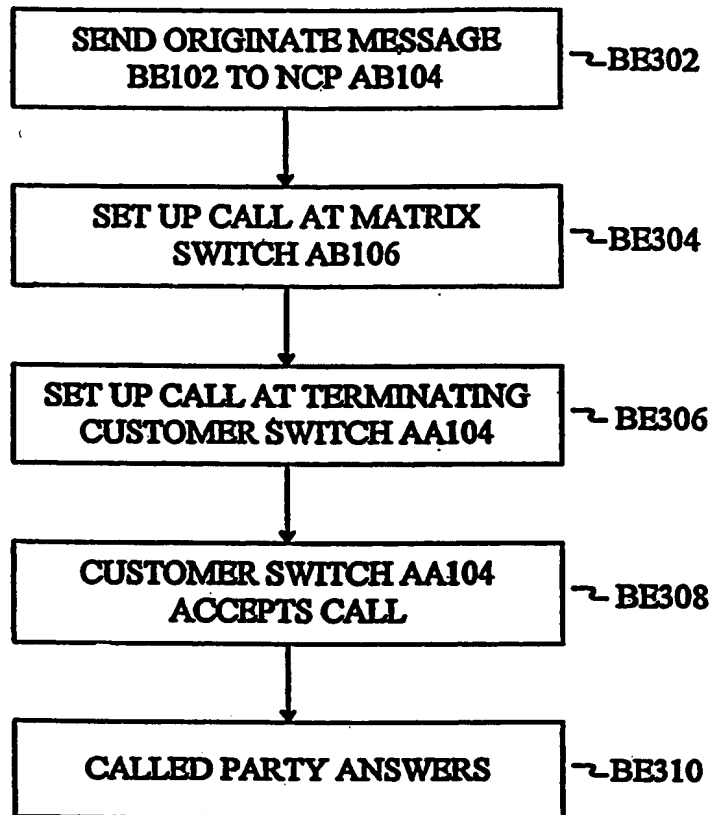


FIG 22

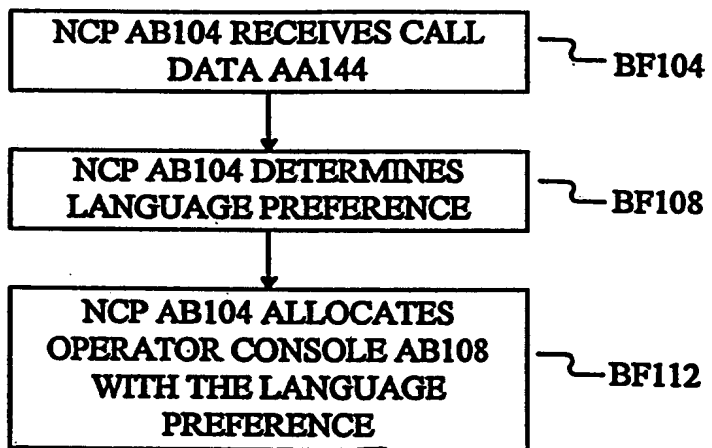


FIG 23

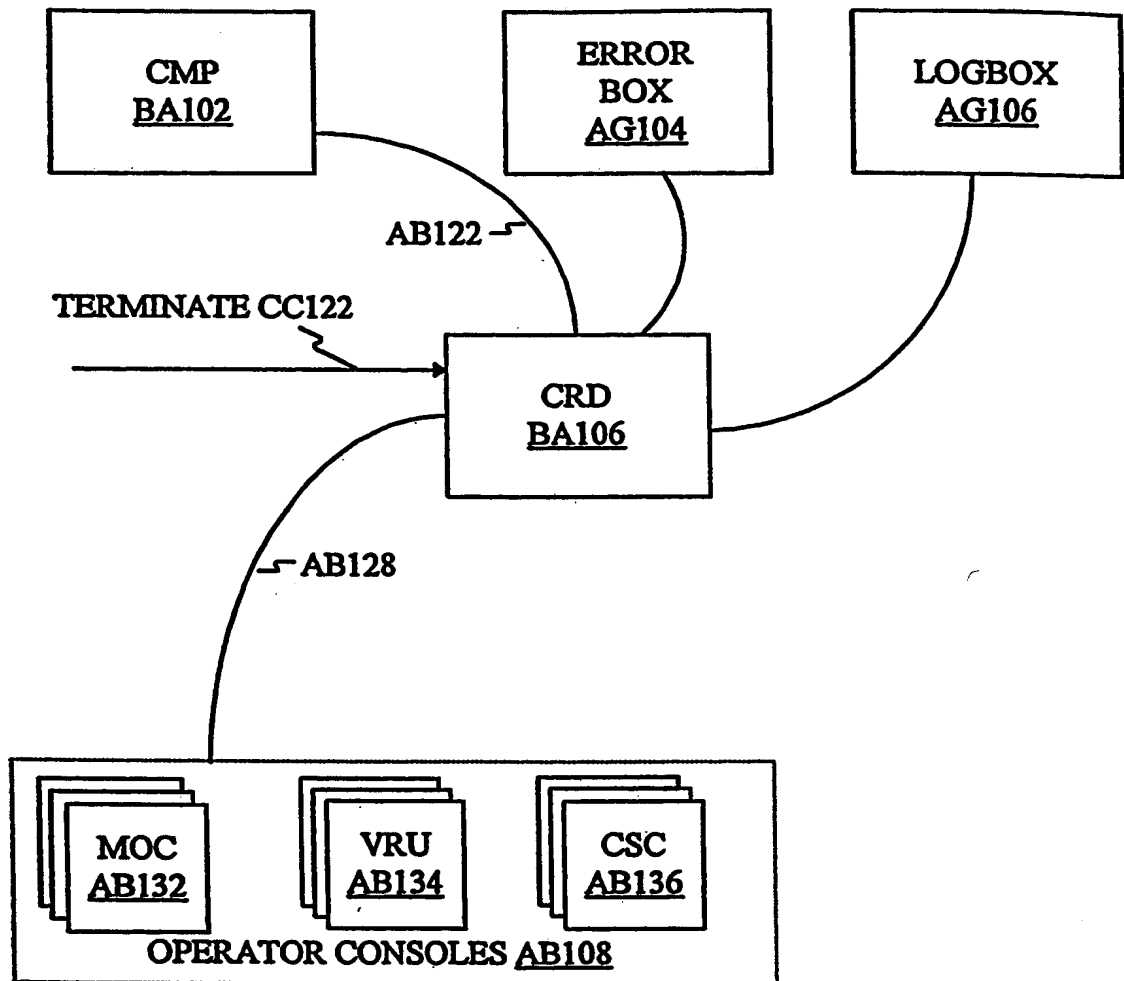


FIG 24



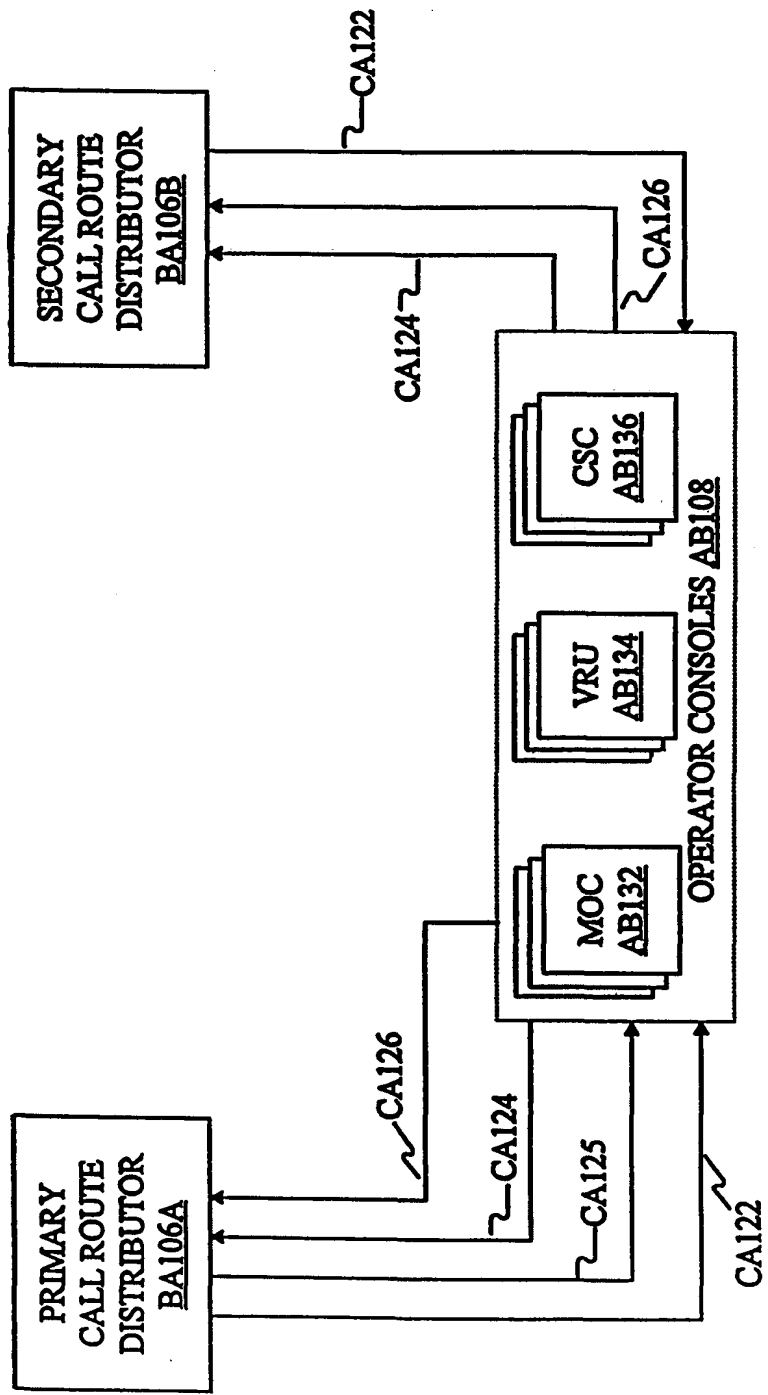


FIG 25

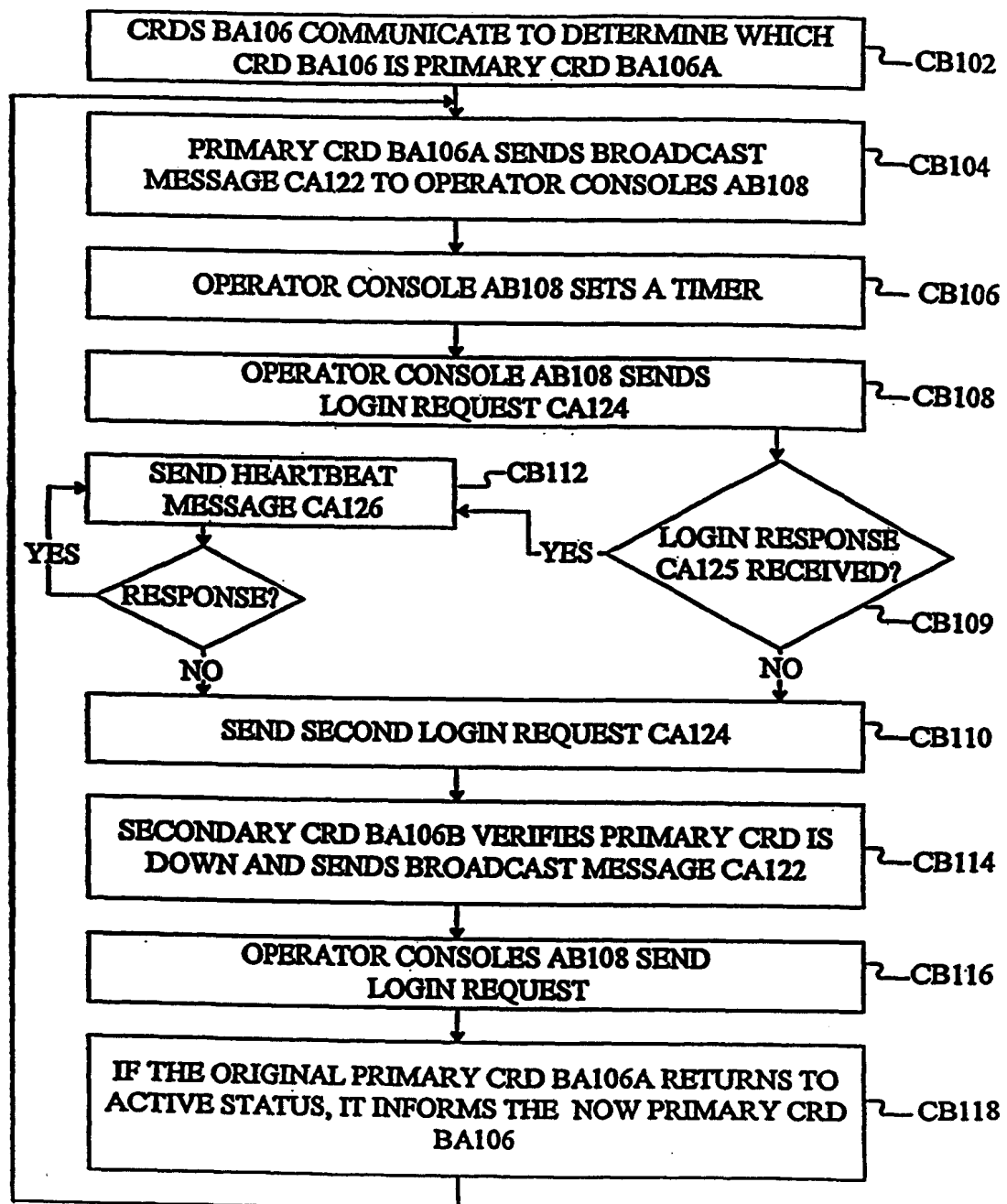


FIG 26

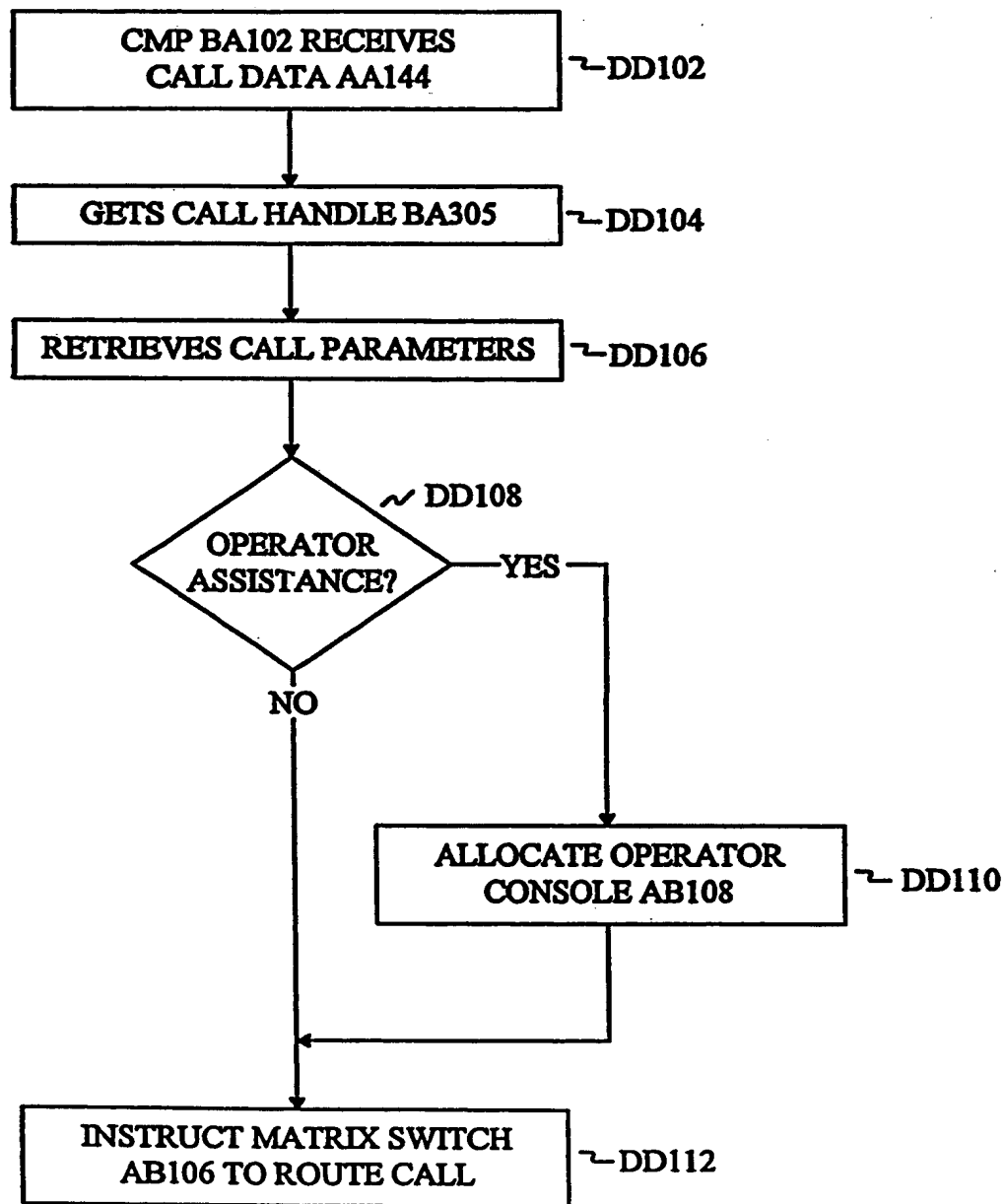


FIG 27

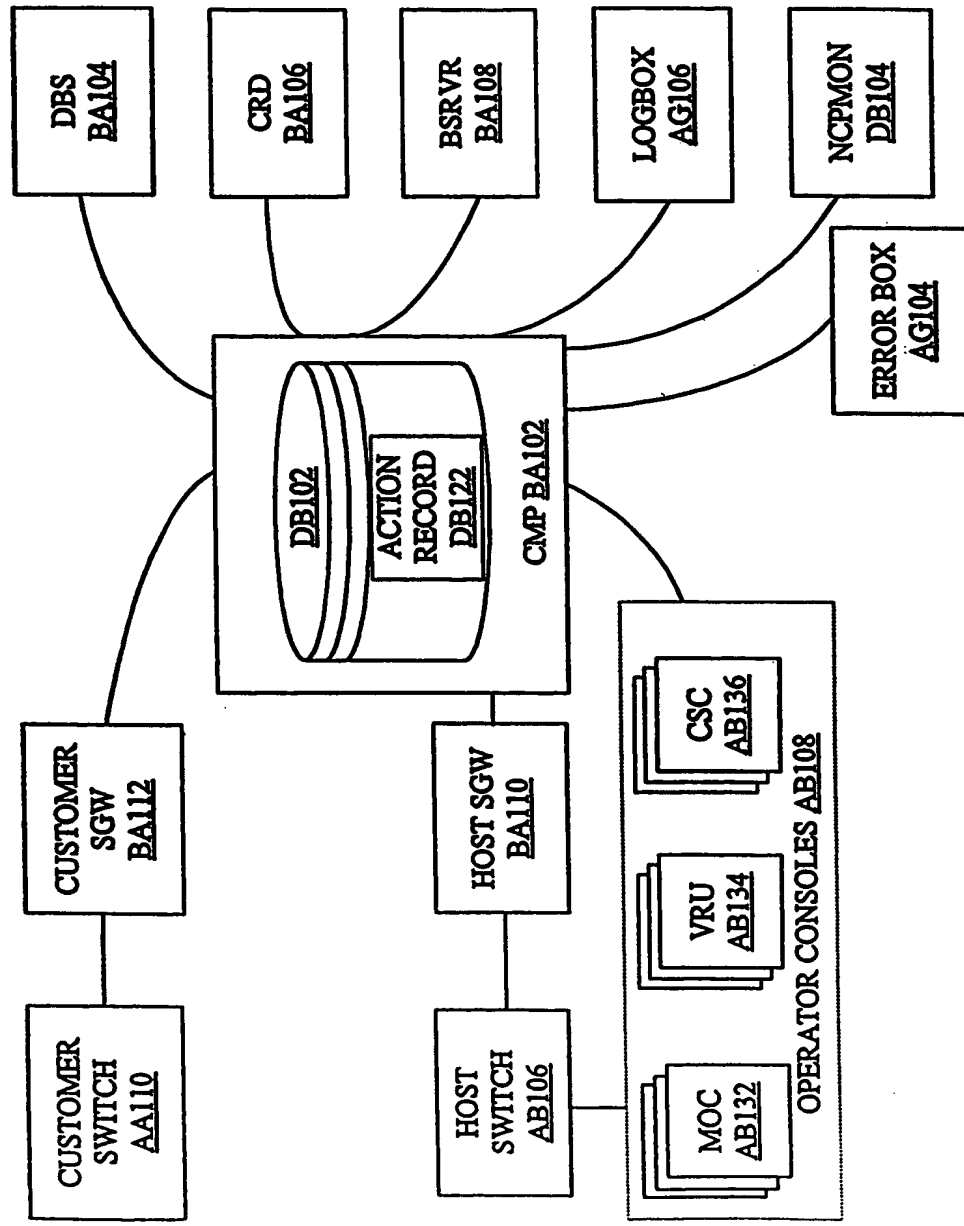
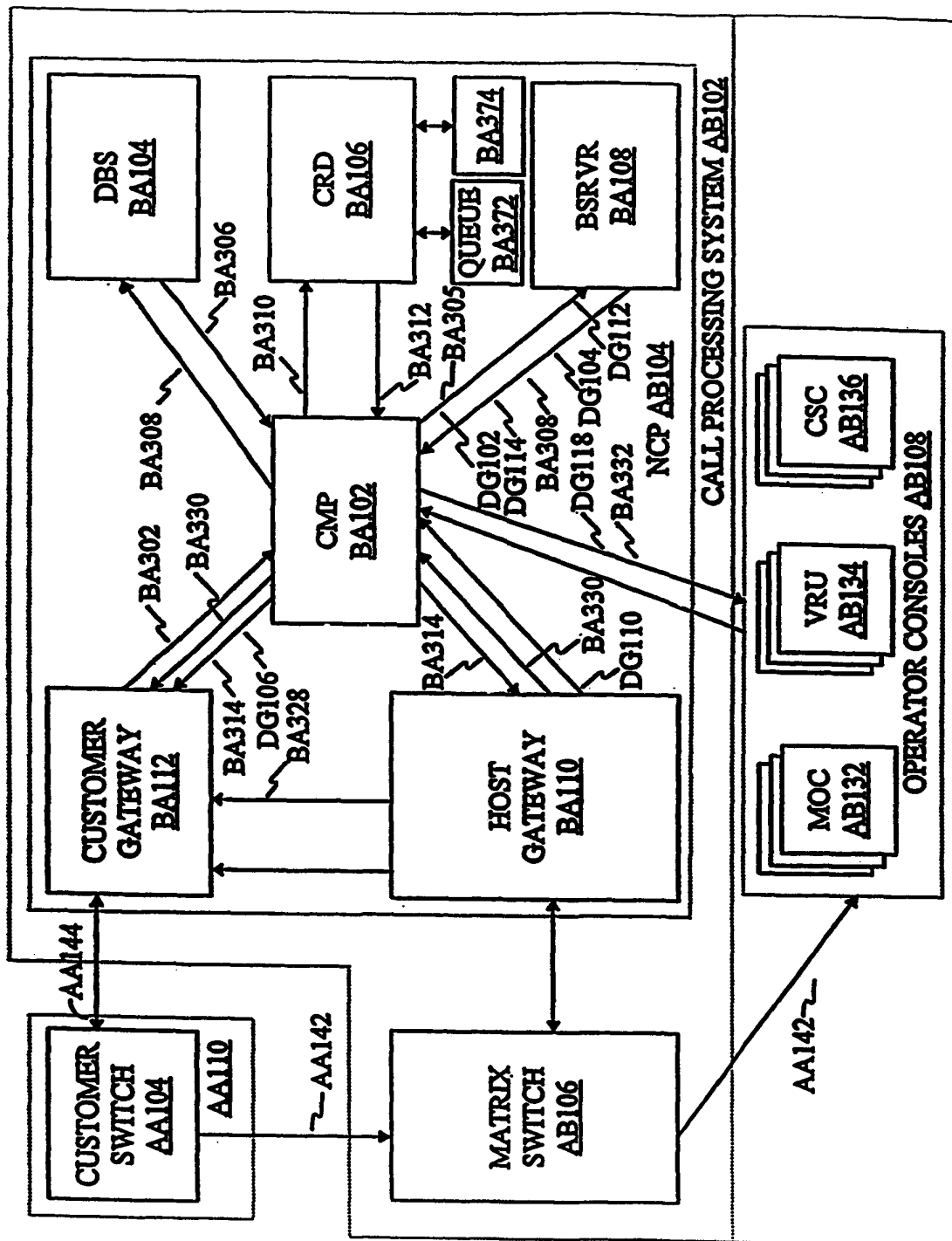


FIG 28

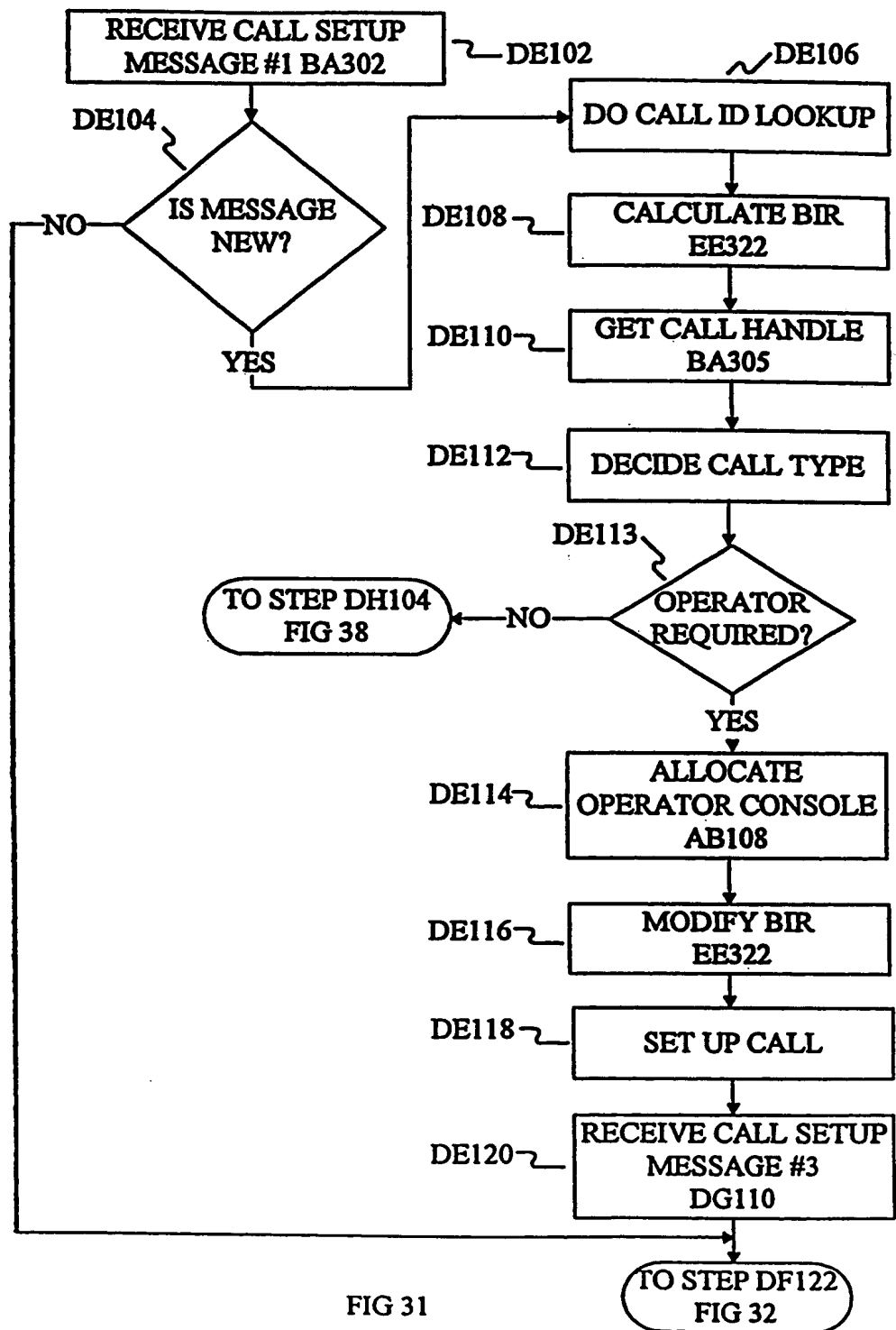




**FIG 31**

**FIG 32**

**FIG 30**



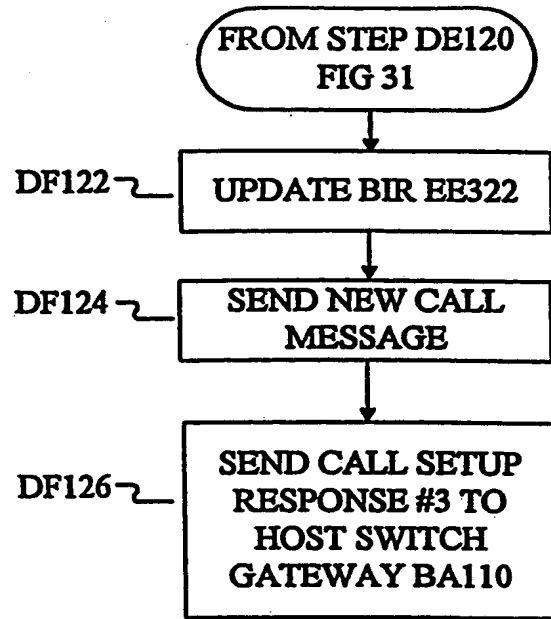


FIG 32



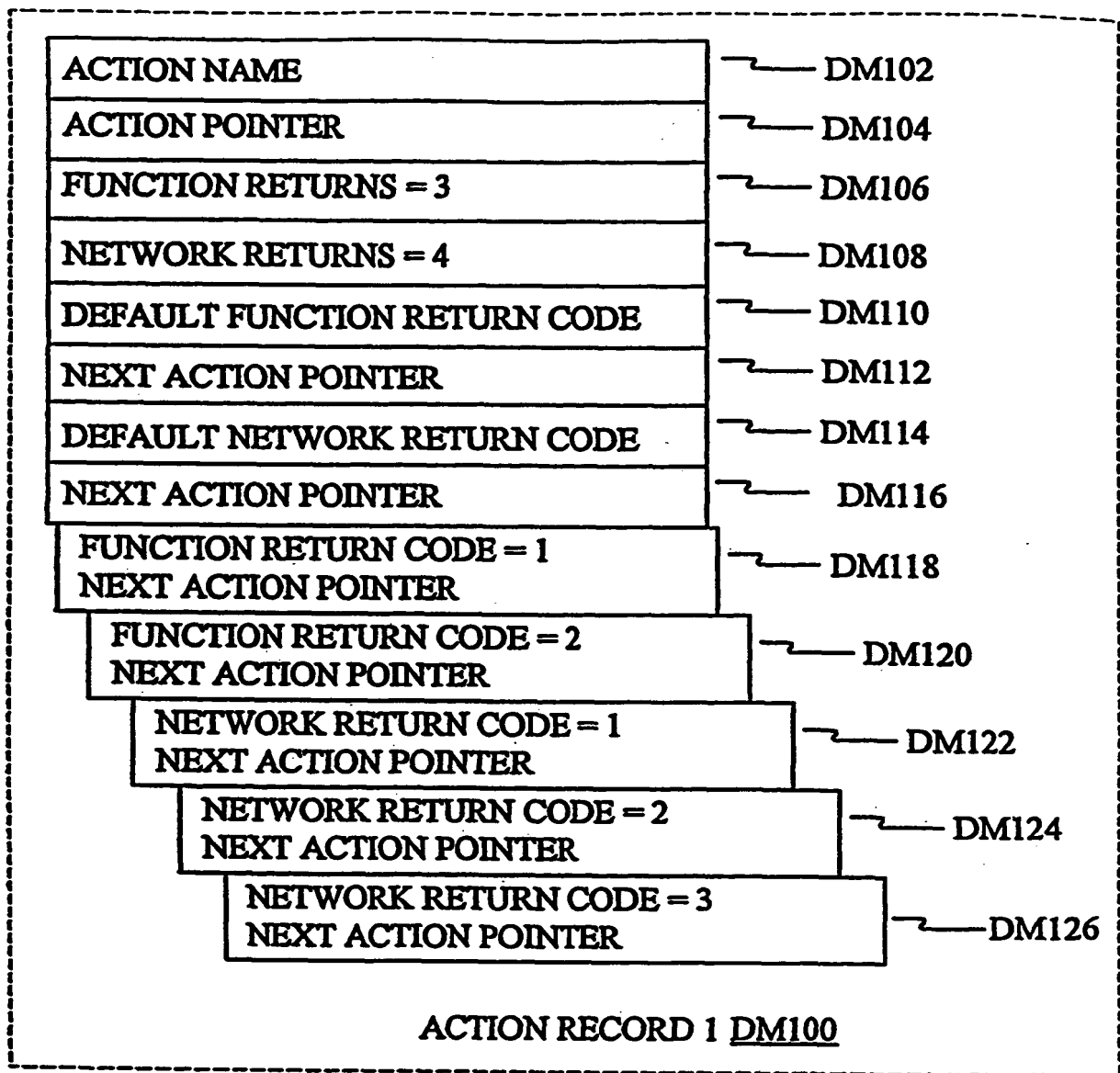
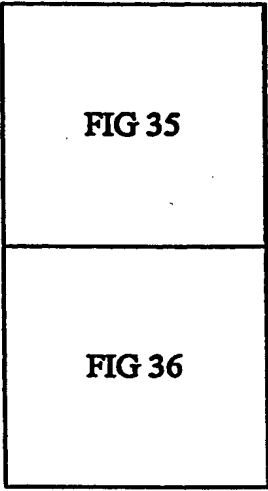


FIG 33



**FIG 34**

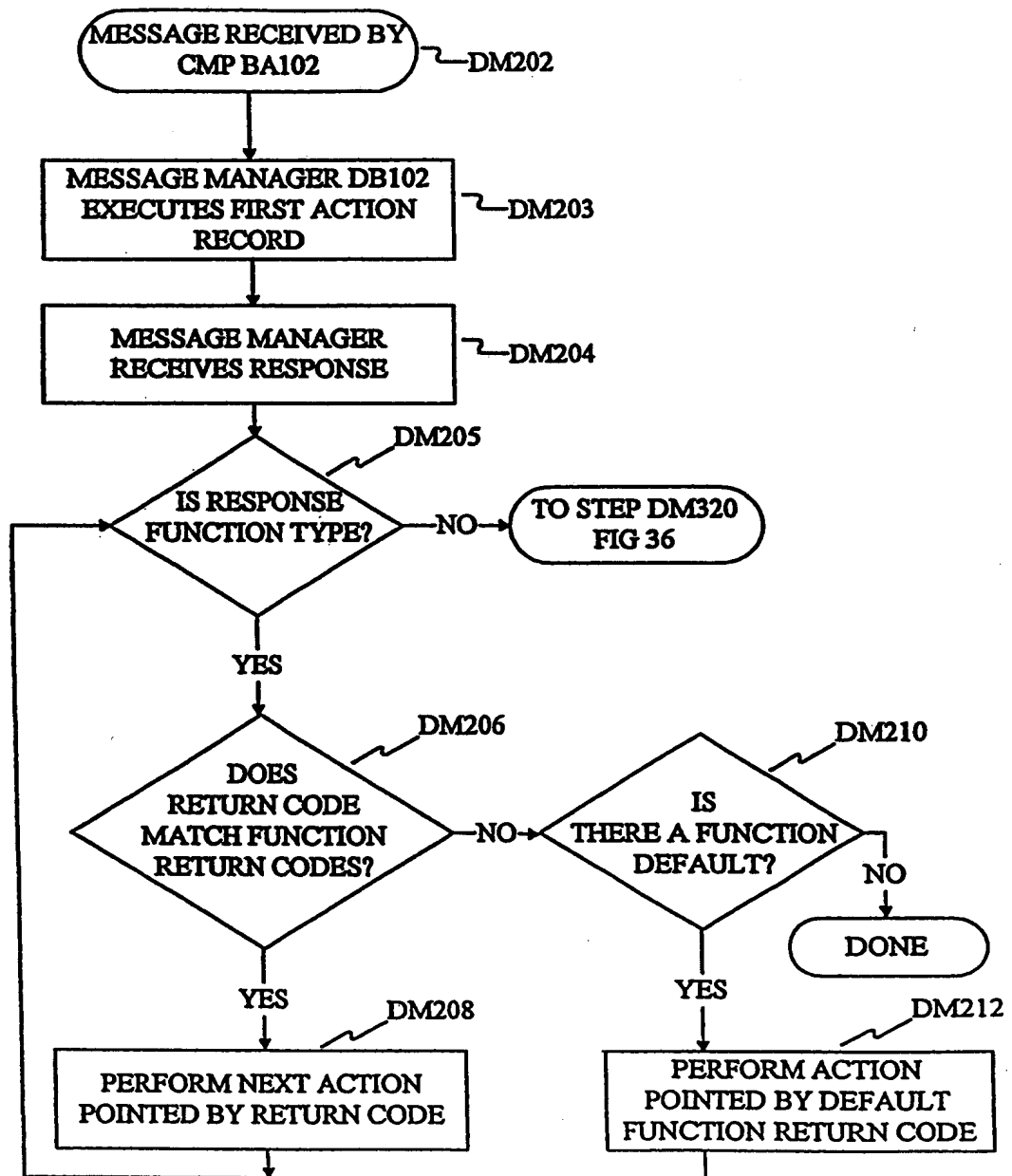


FIG 35

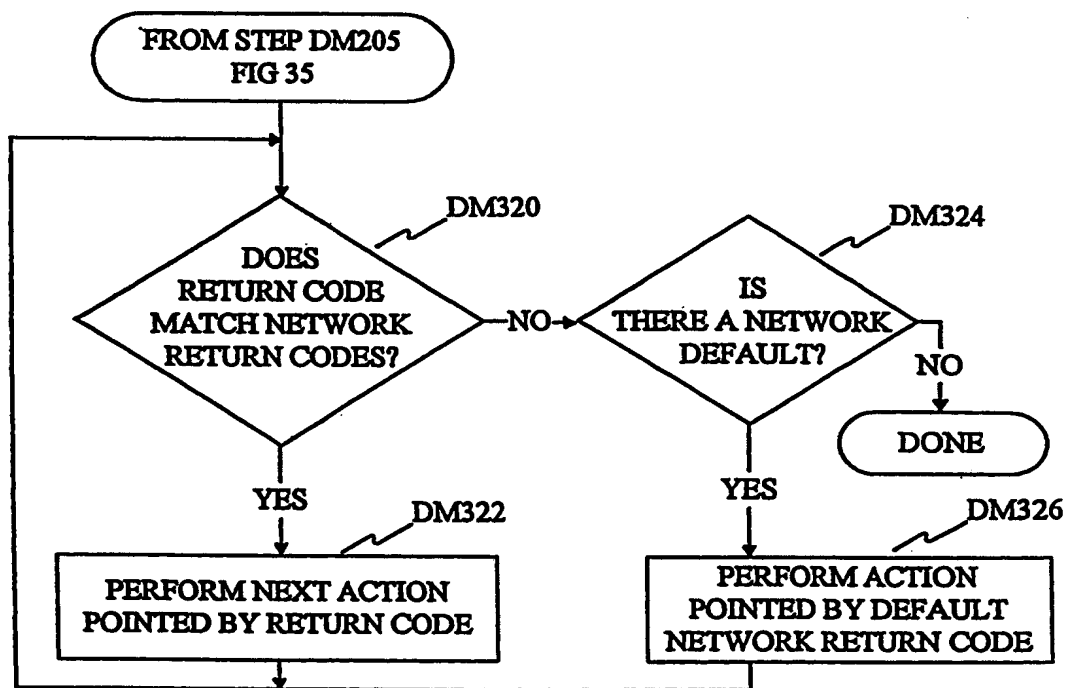


FIG 36

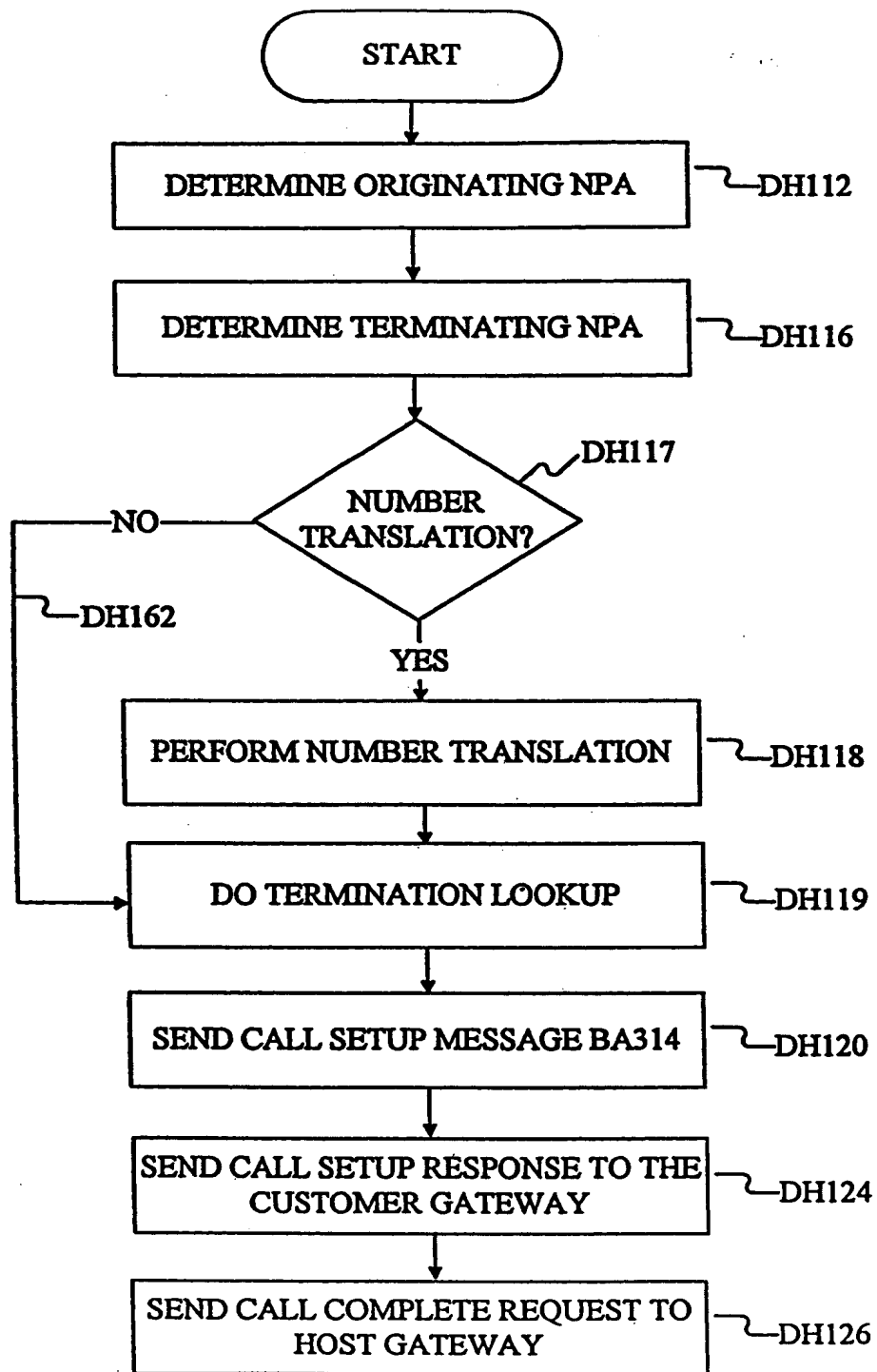


FIG 37

**FIG 39**

**FIG 40**

**FIG 38**

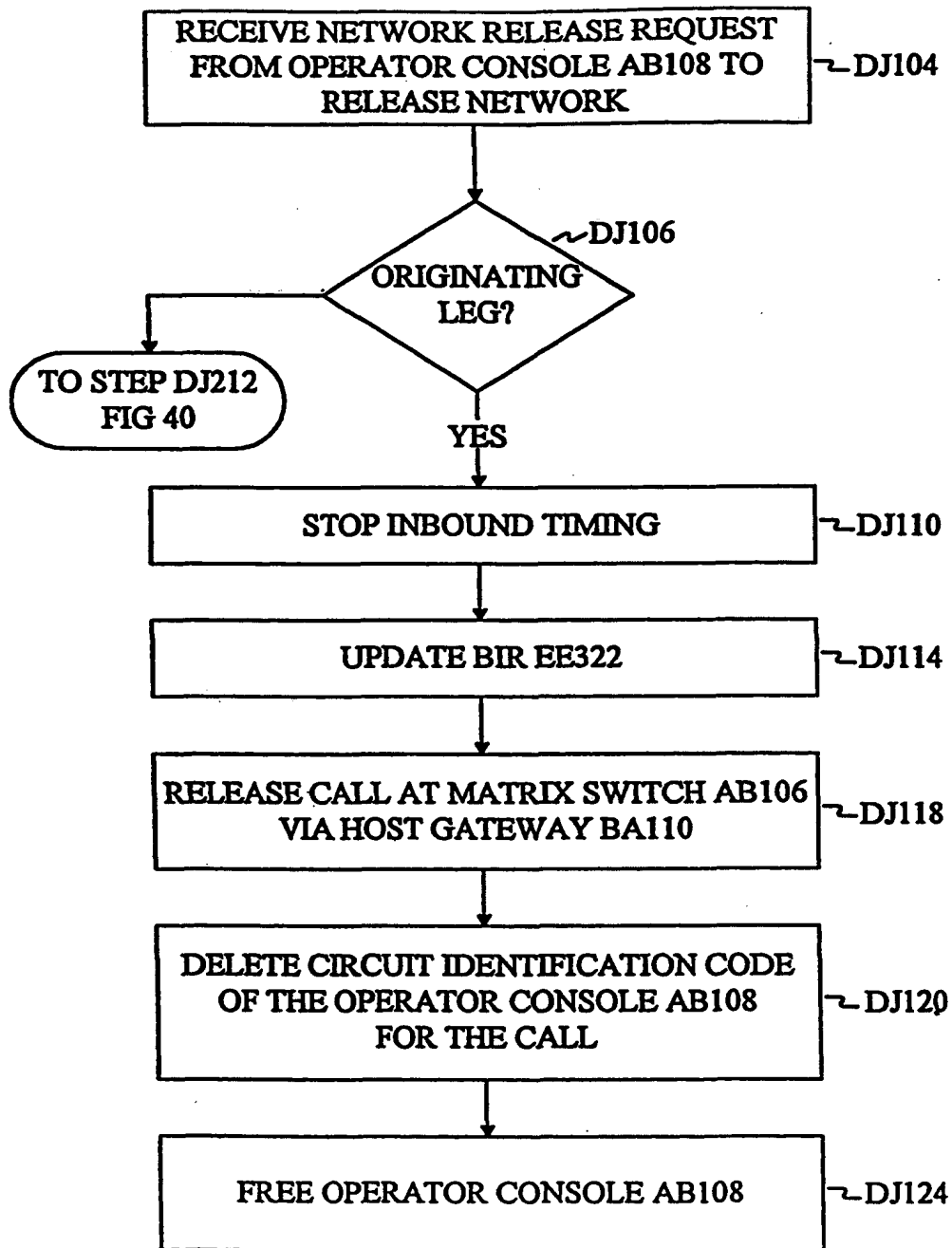


FIG 39

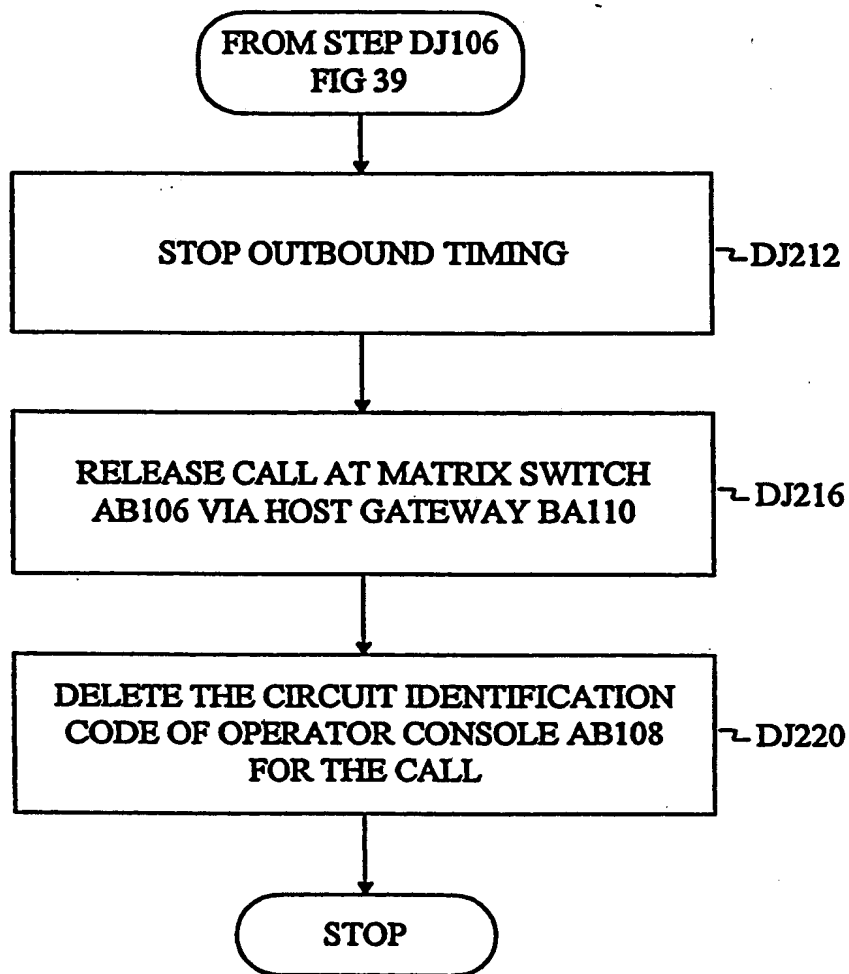


FIG 40



<b>FIG 42</b>	<b>FIG 43</b>
<b>FIG 44</b>	<b>FIG 45</b>

**FIG 41**

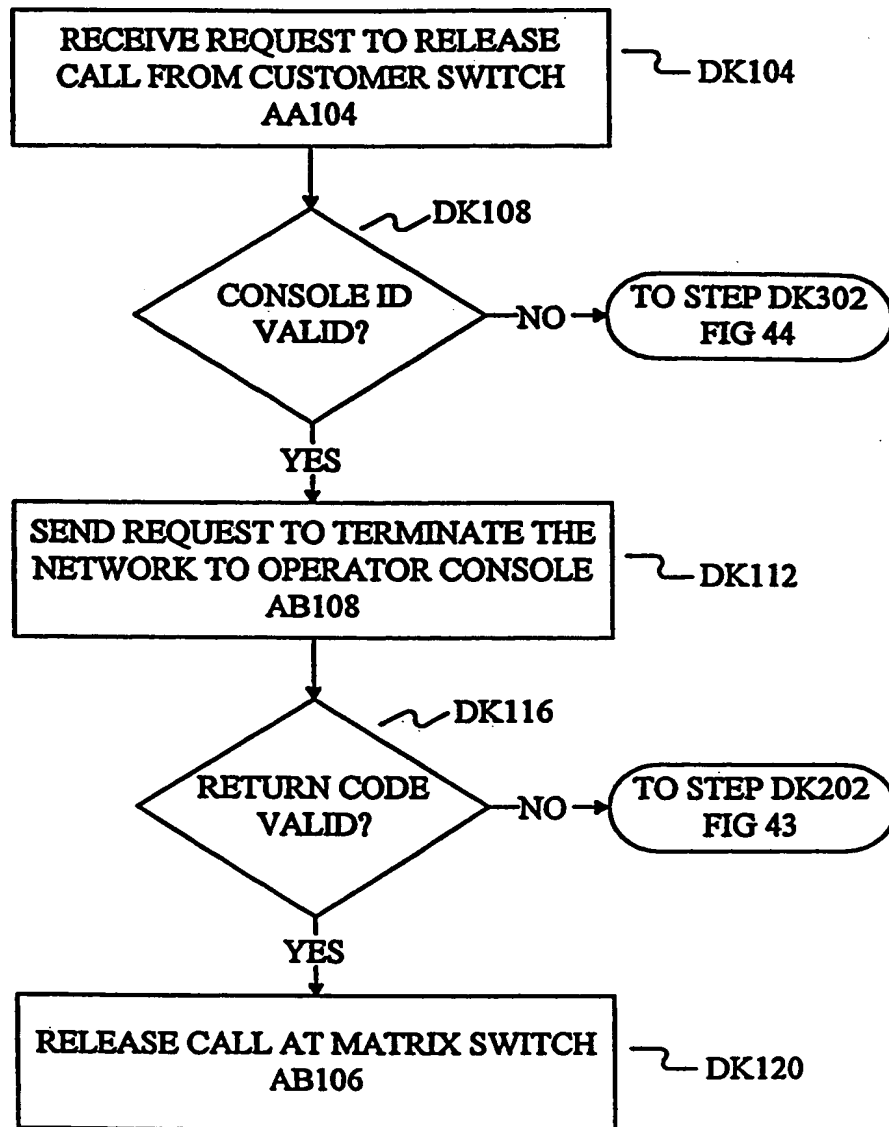


FIG 42

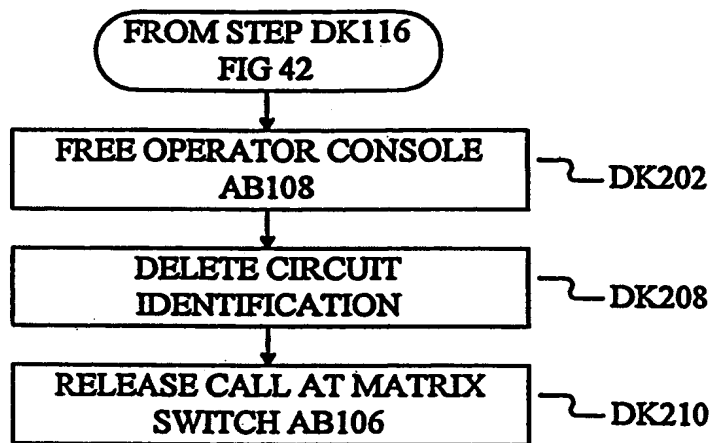


FIG 43

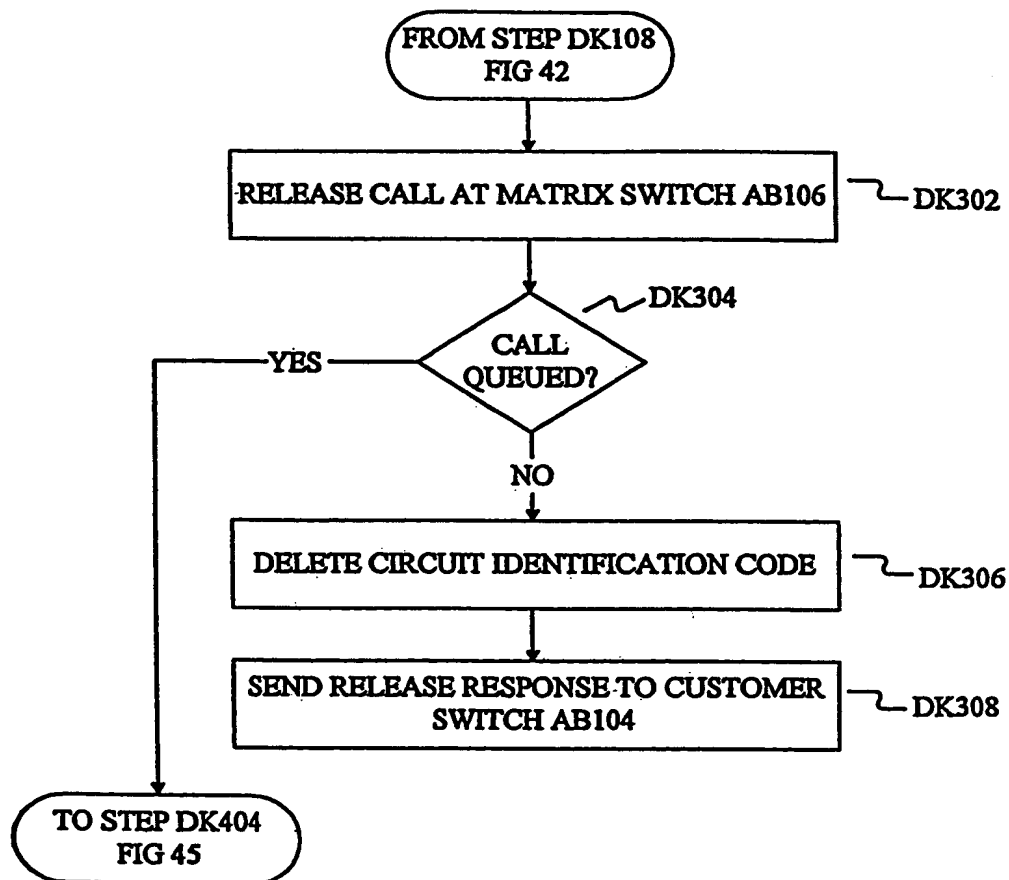


FIG 44

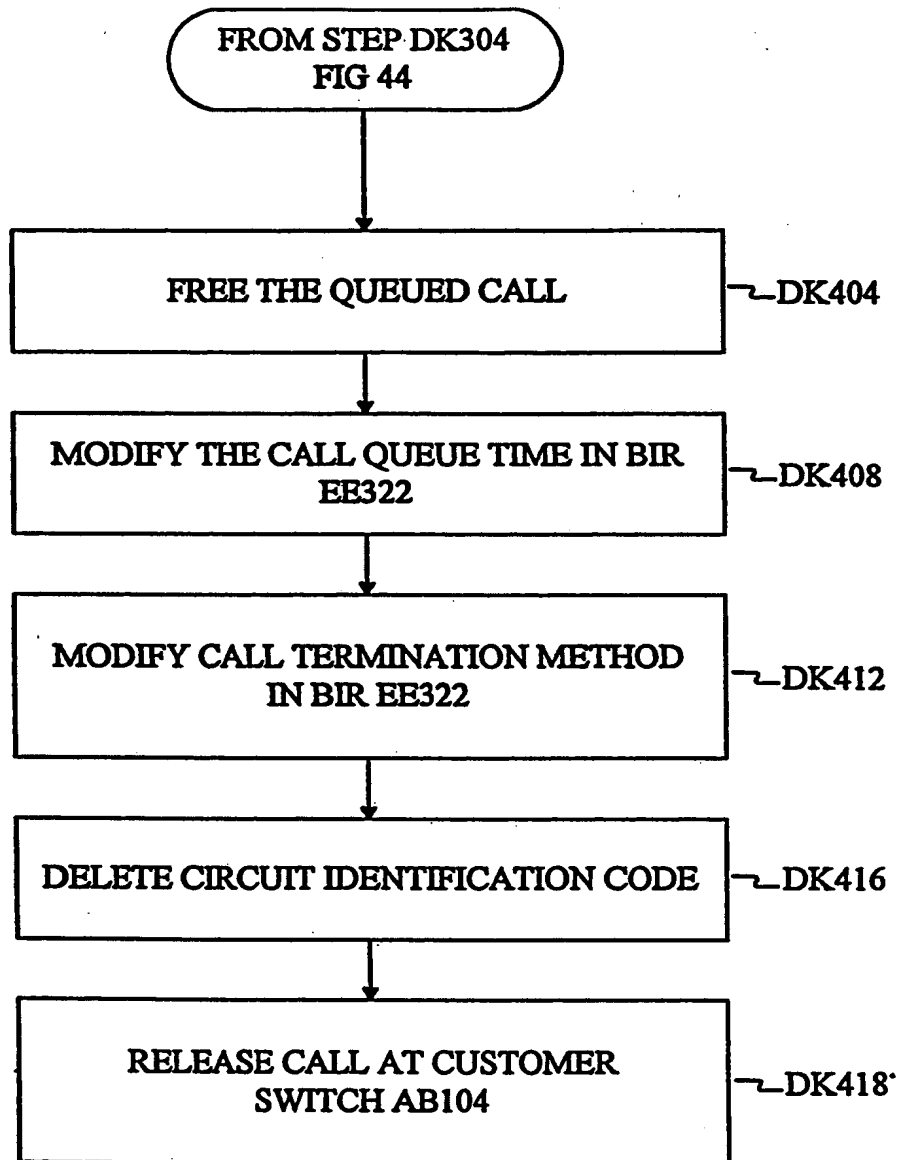


FIG 45

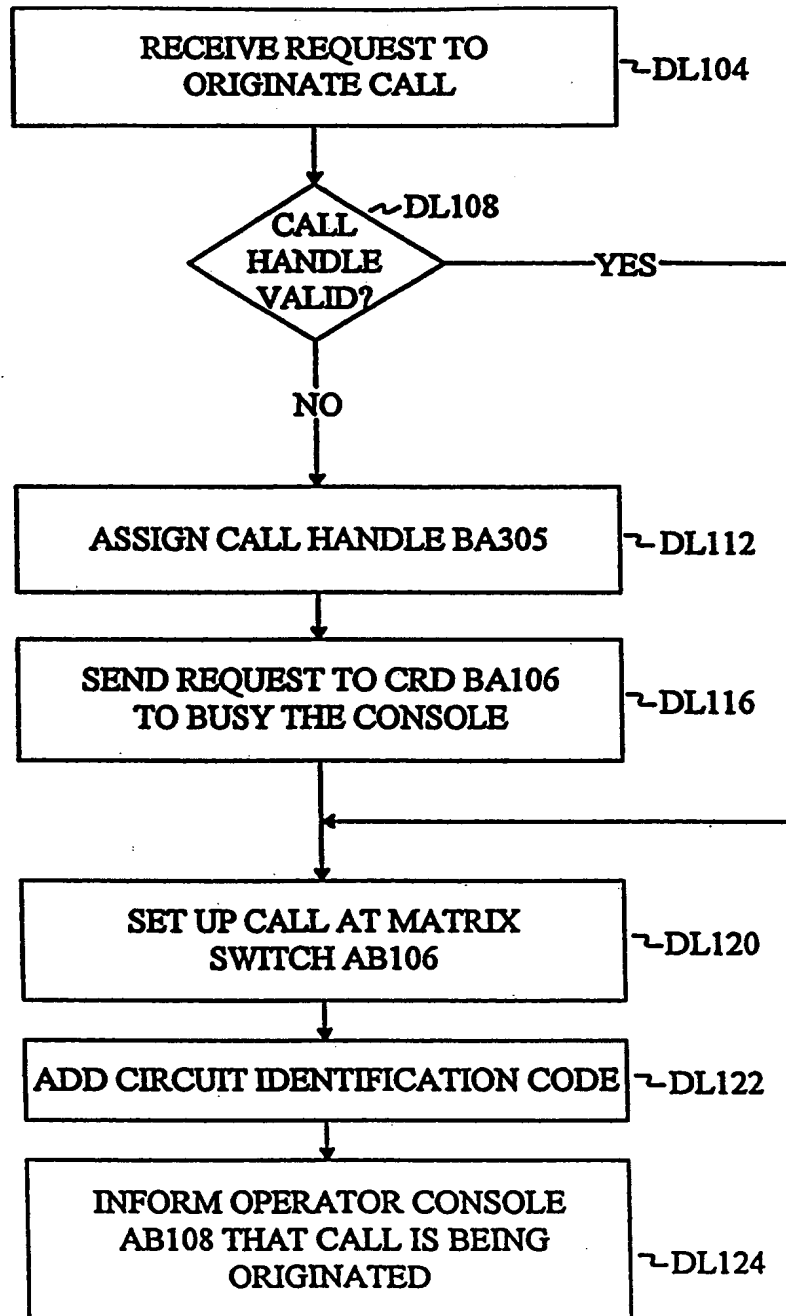


FIG 46

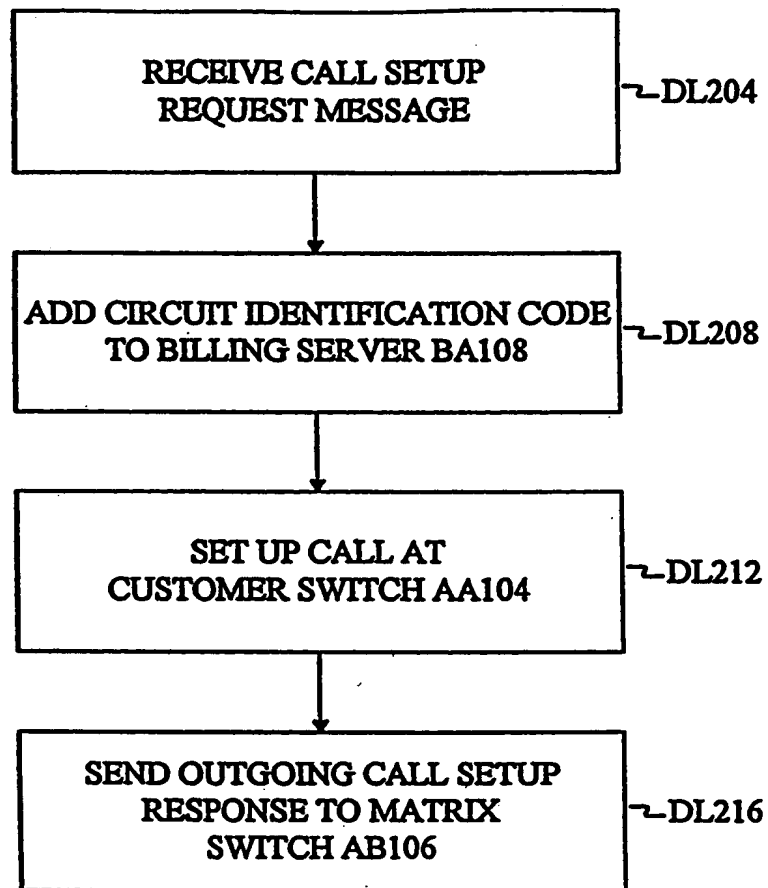


FIG 47

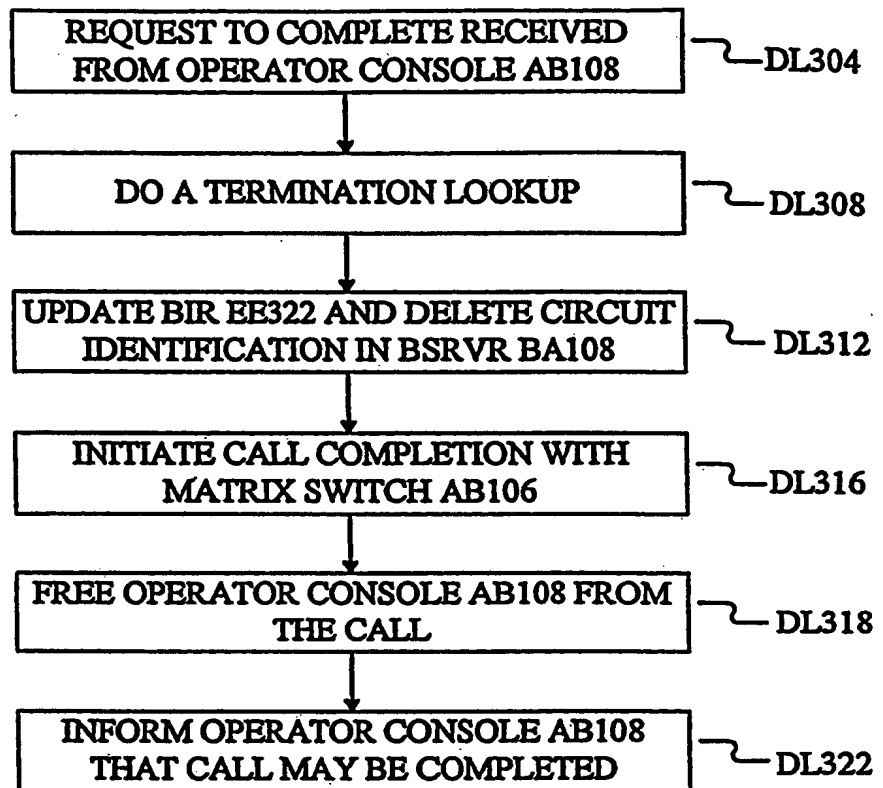


FIG 48



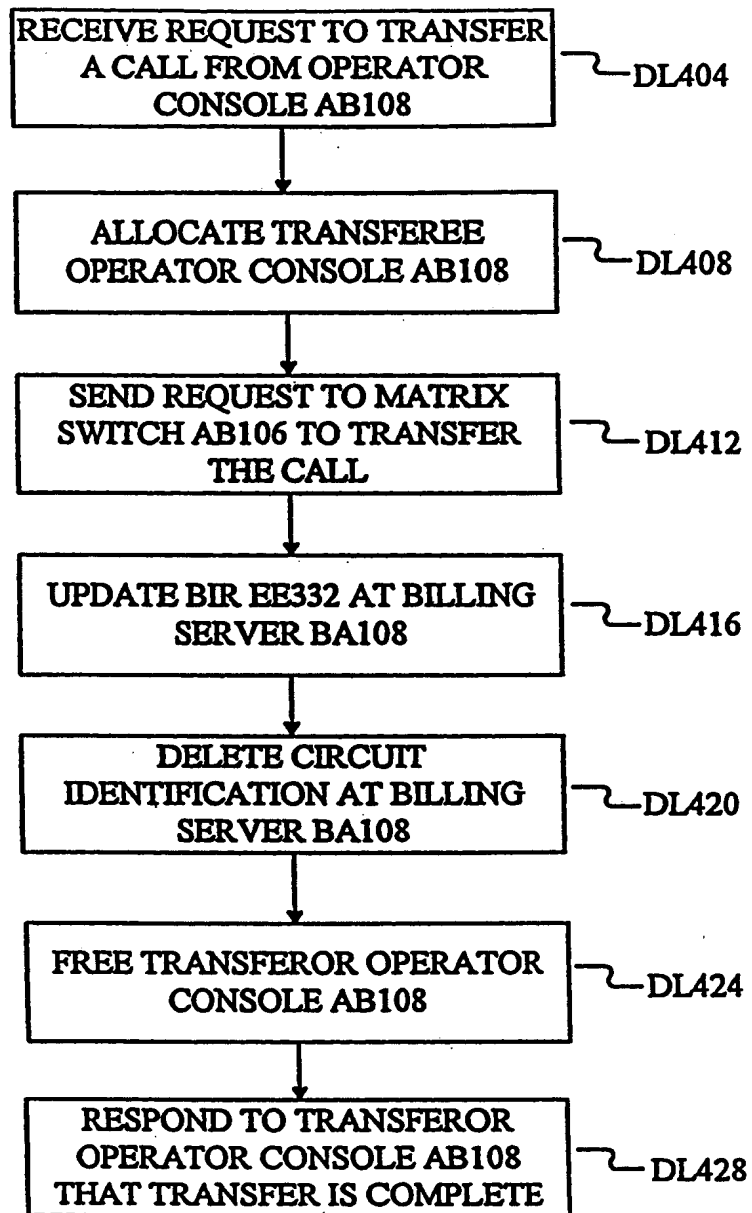


FIG 49

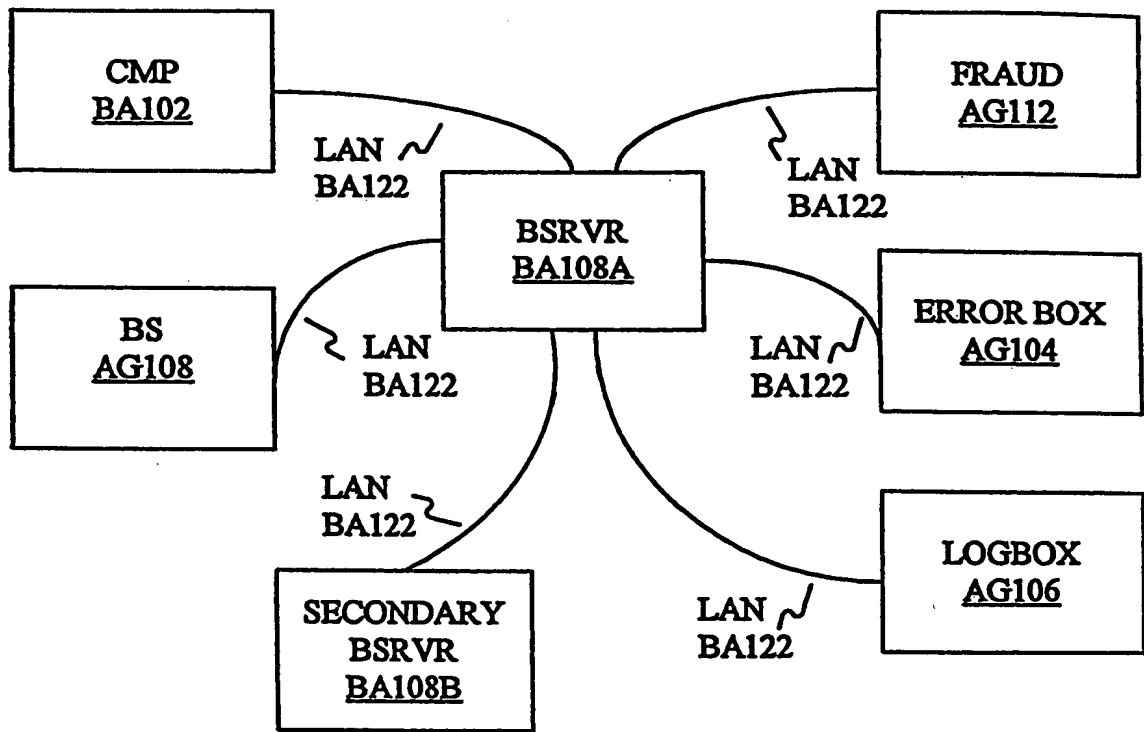


FIG 50

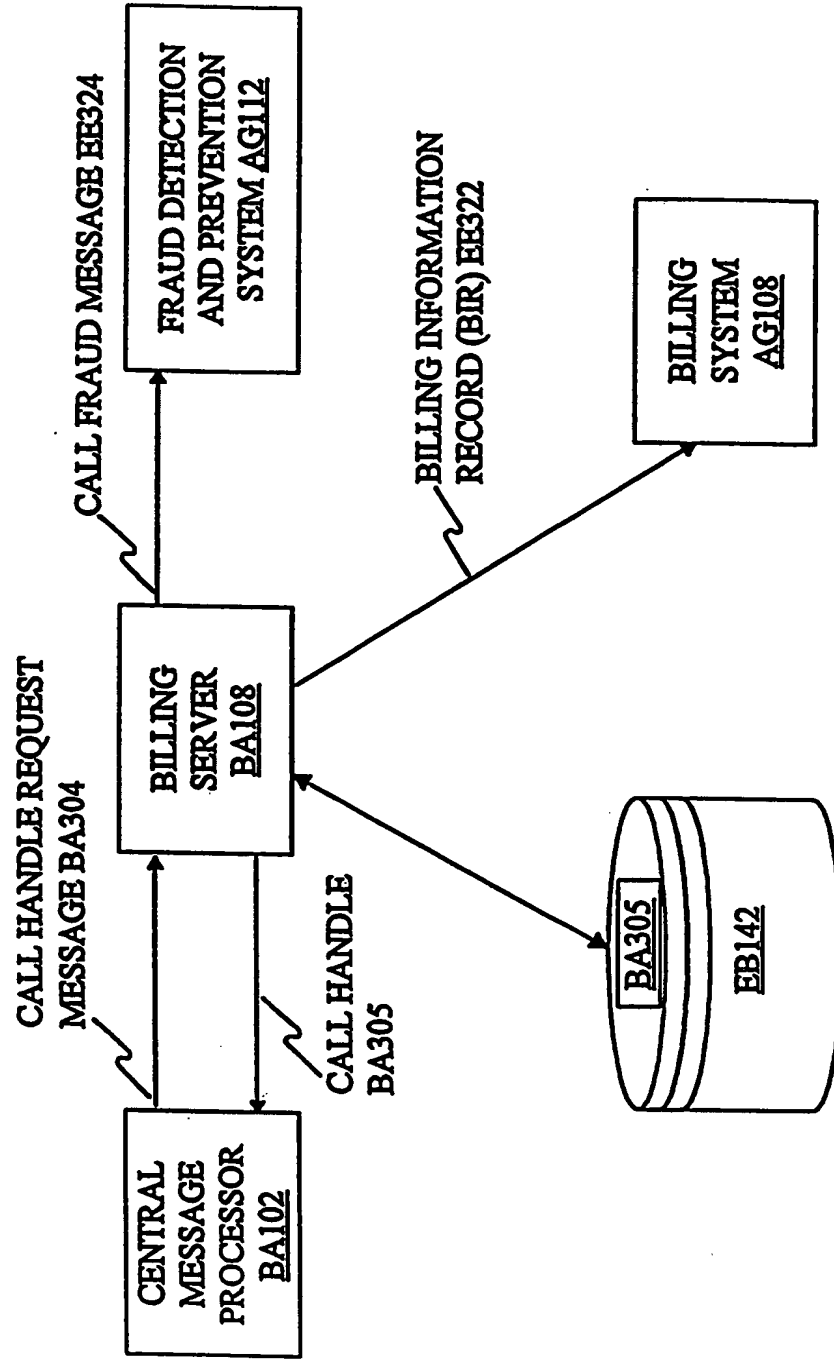


FIG 51

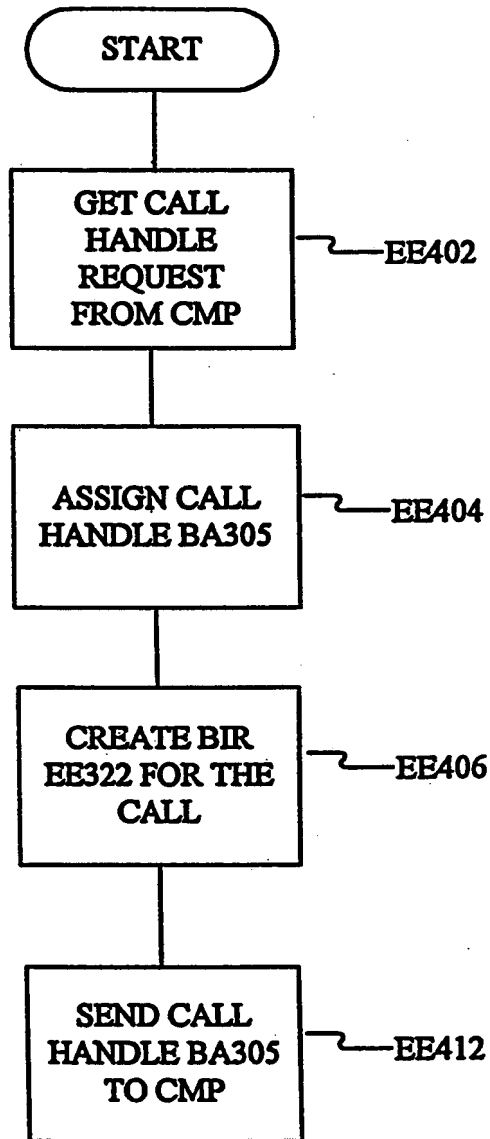


FIG 52

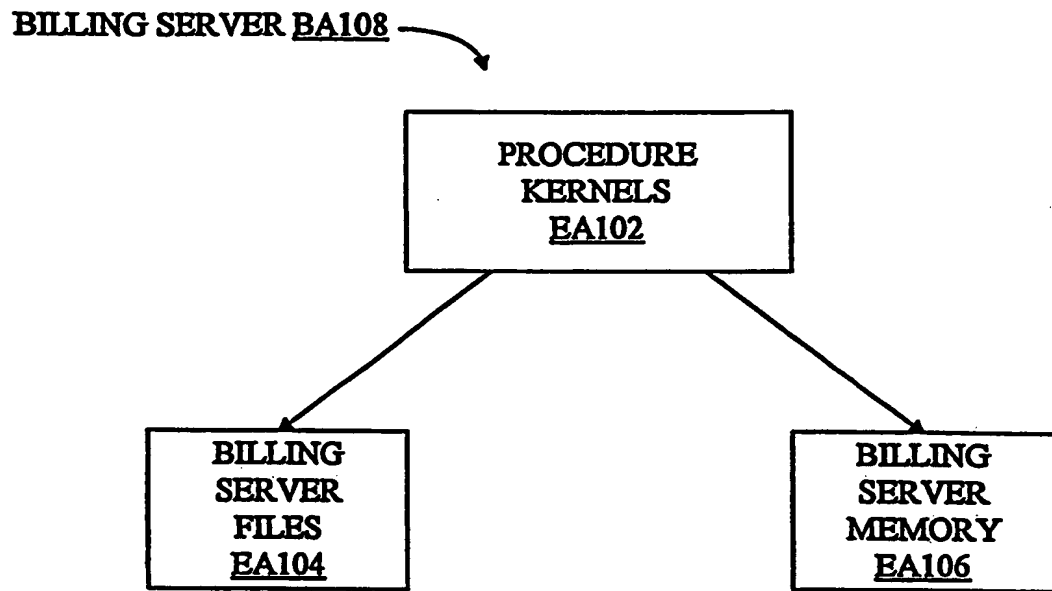


FIG 53

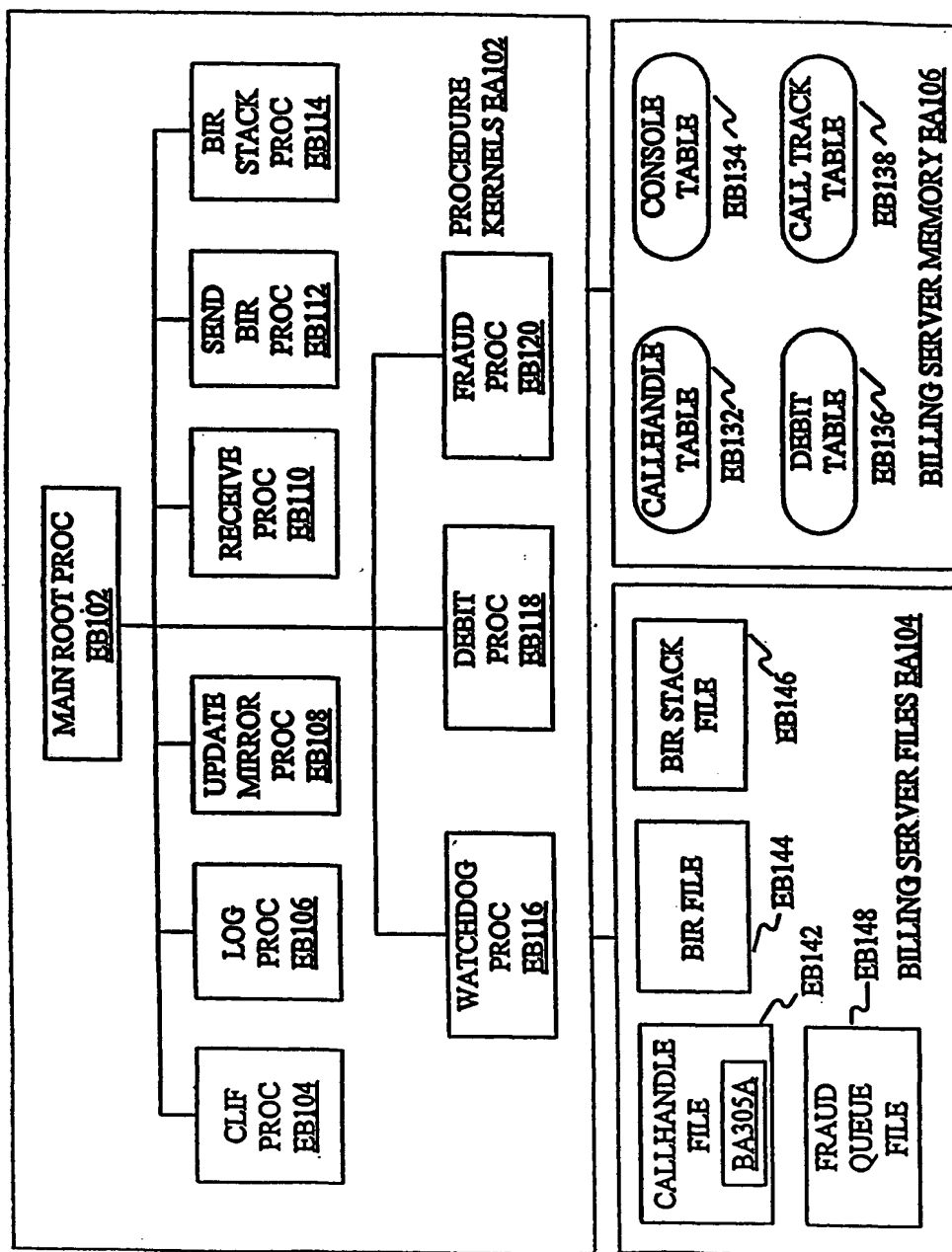


FIG 54

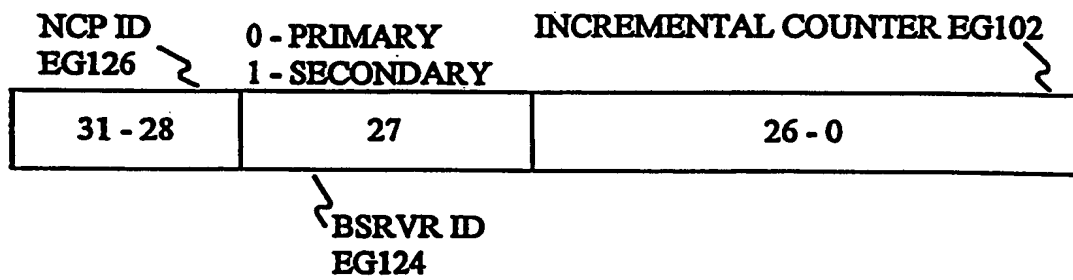


FIG 55

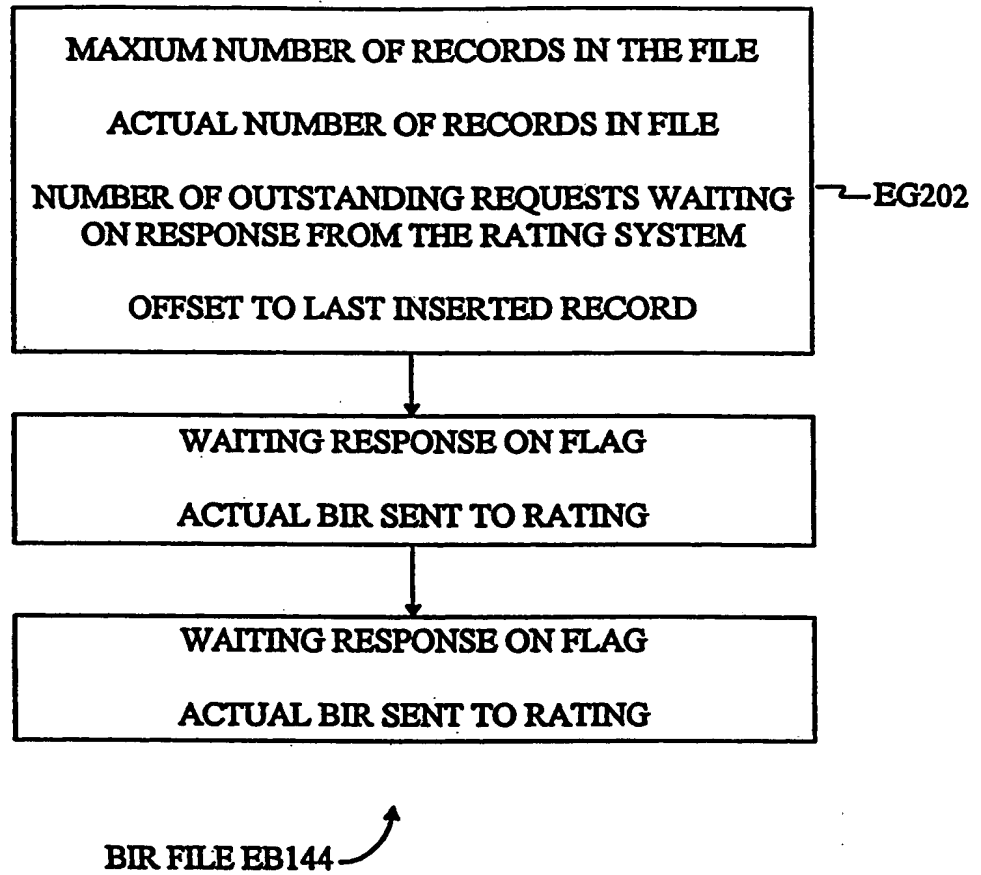


FIG 56





**FIG 58**

**FIG 59**

**FIG 57**

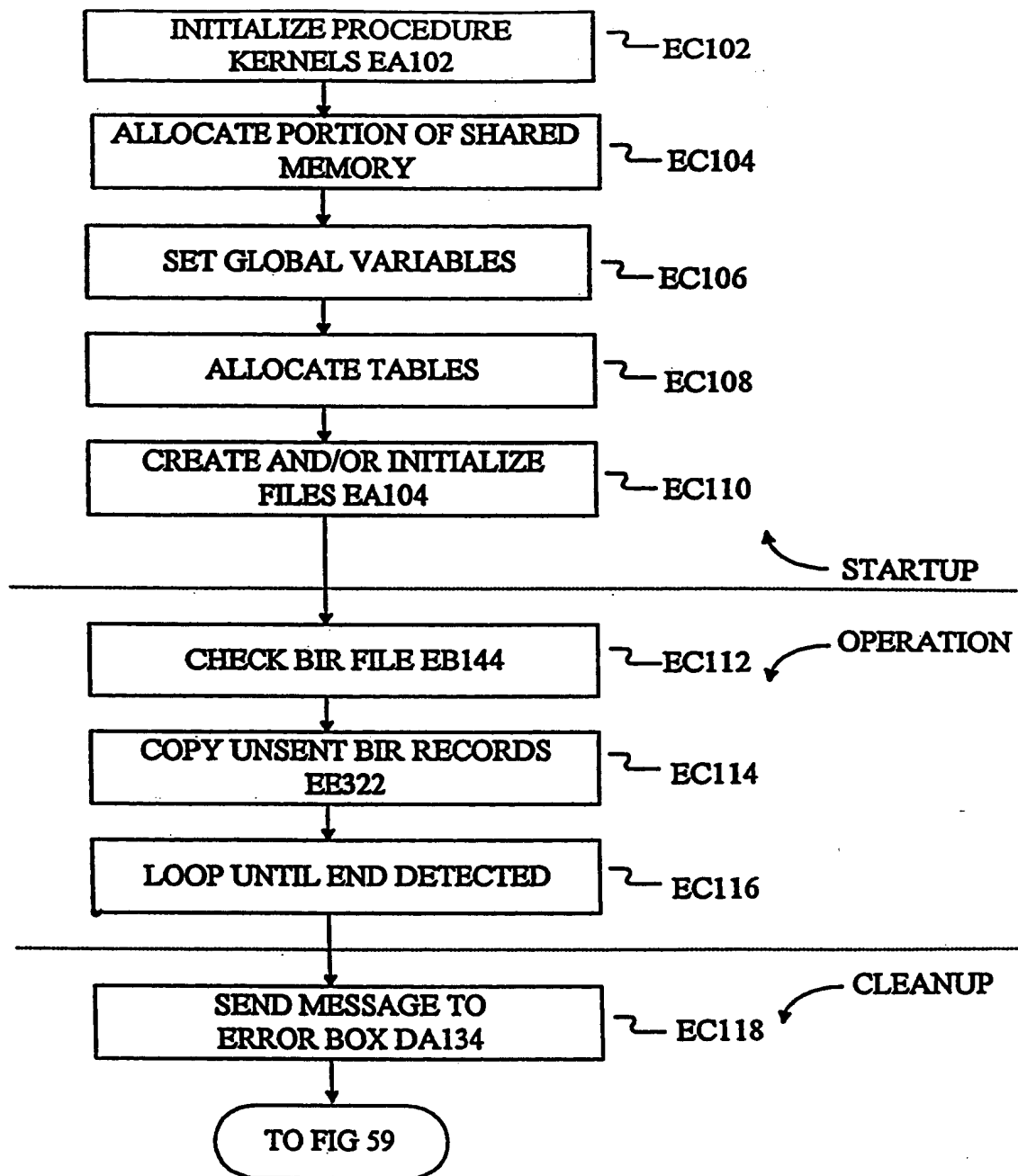


FIG 58

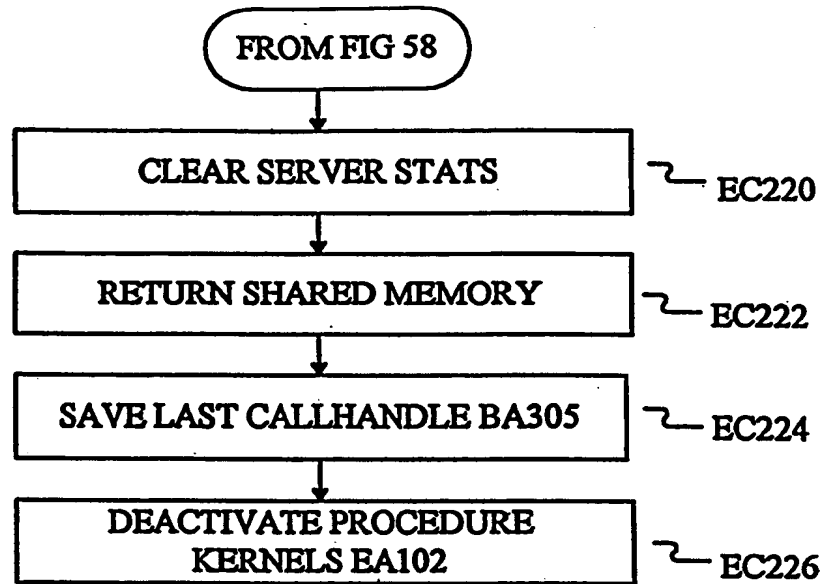
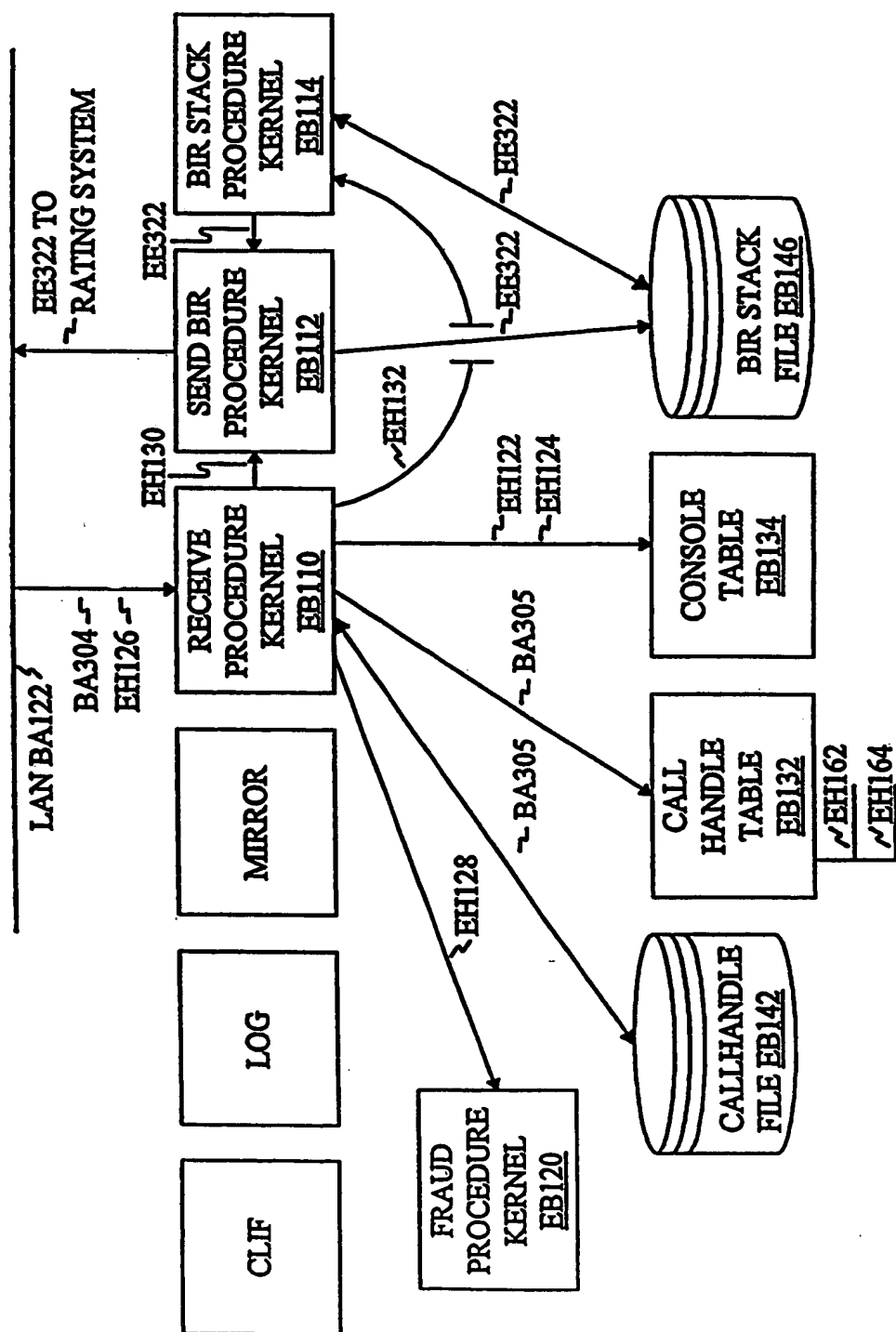


FIG 59



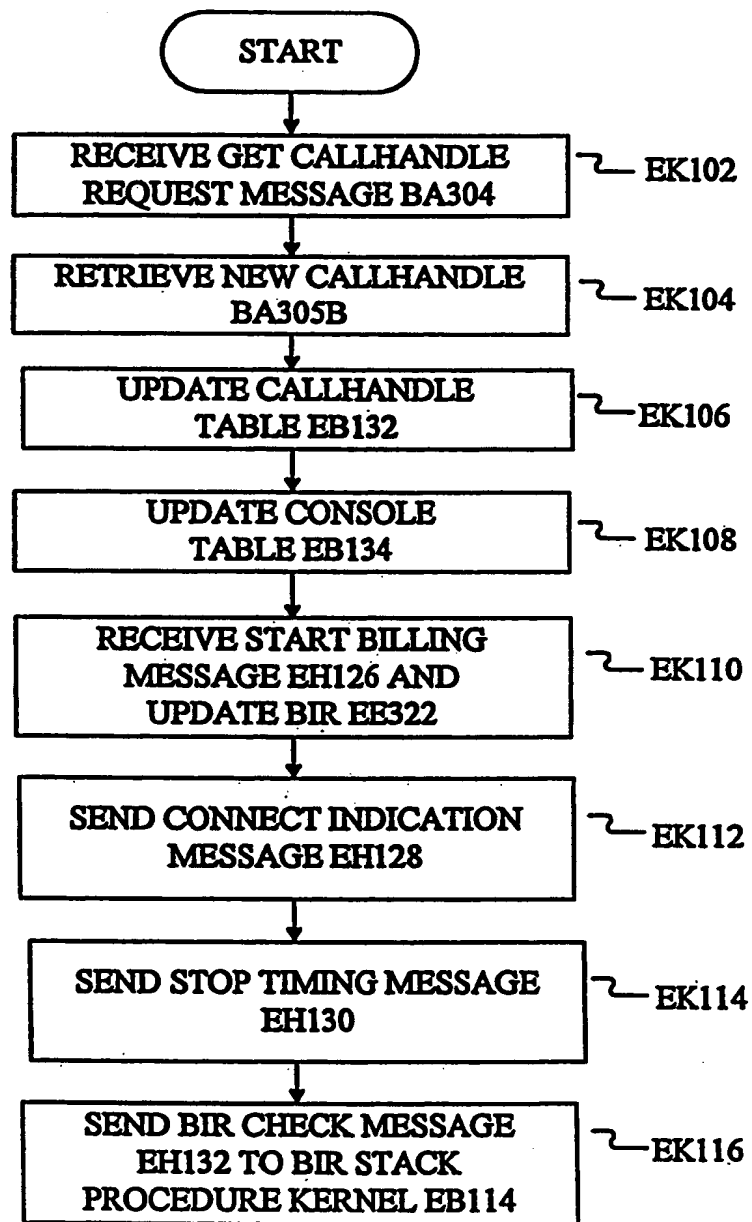


FIG 61

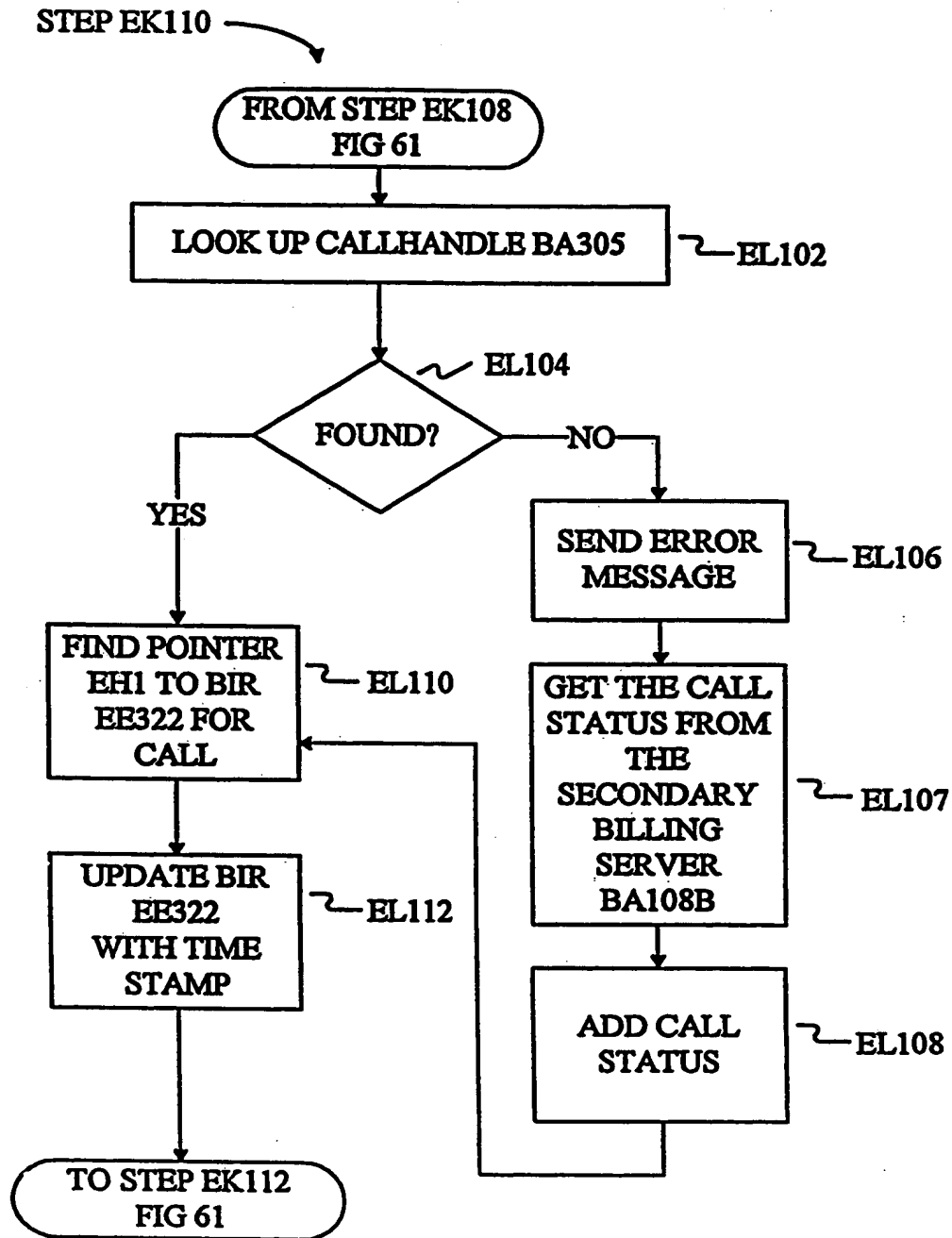


FIG 62

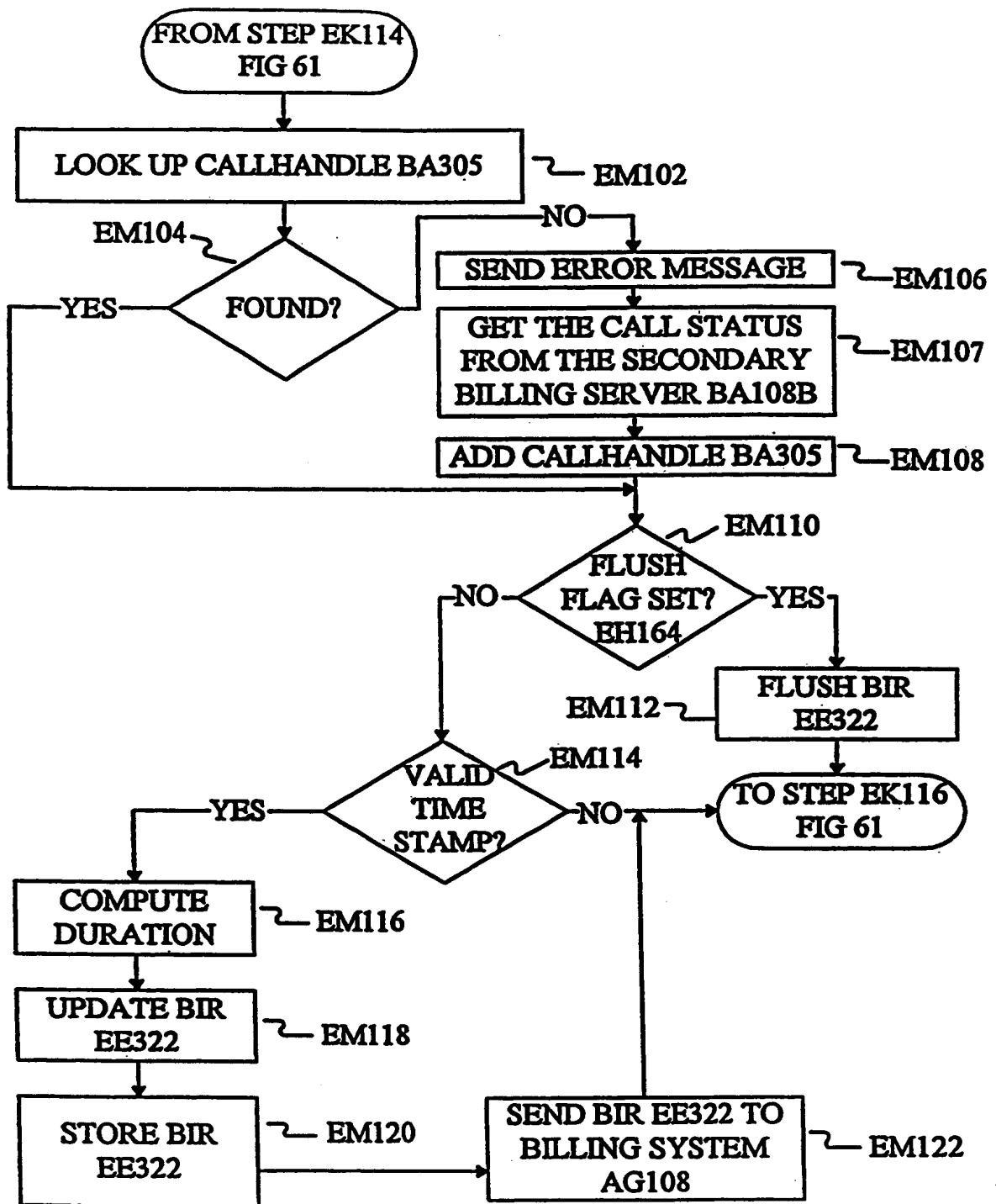


FIG 63

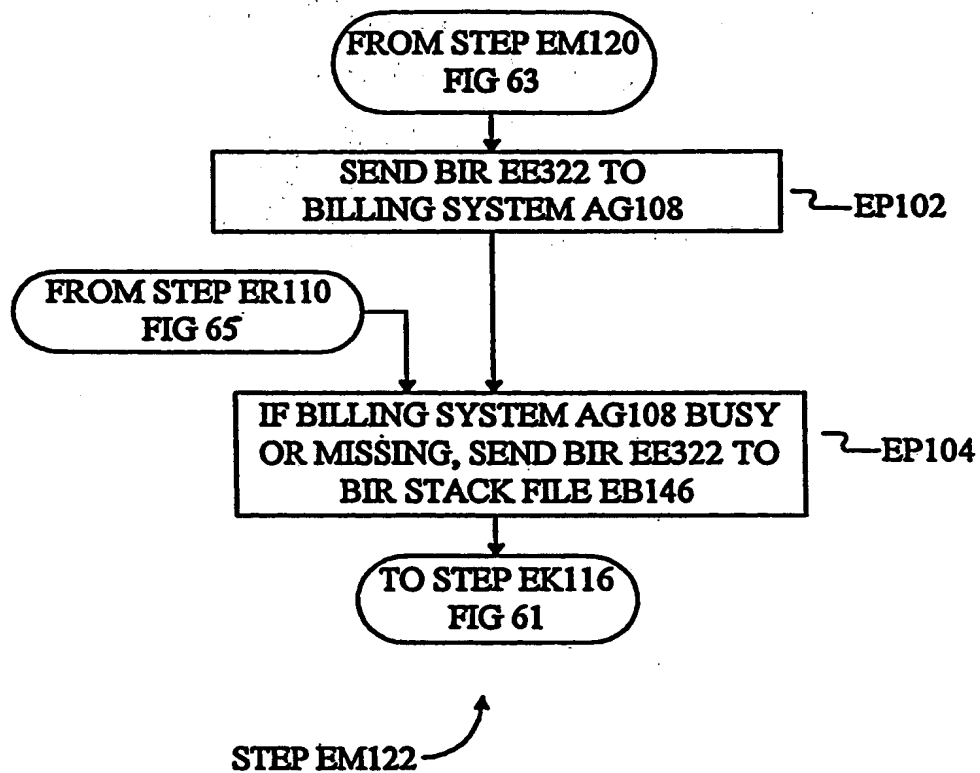


FIG 64



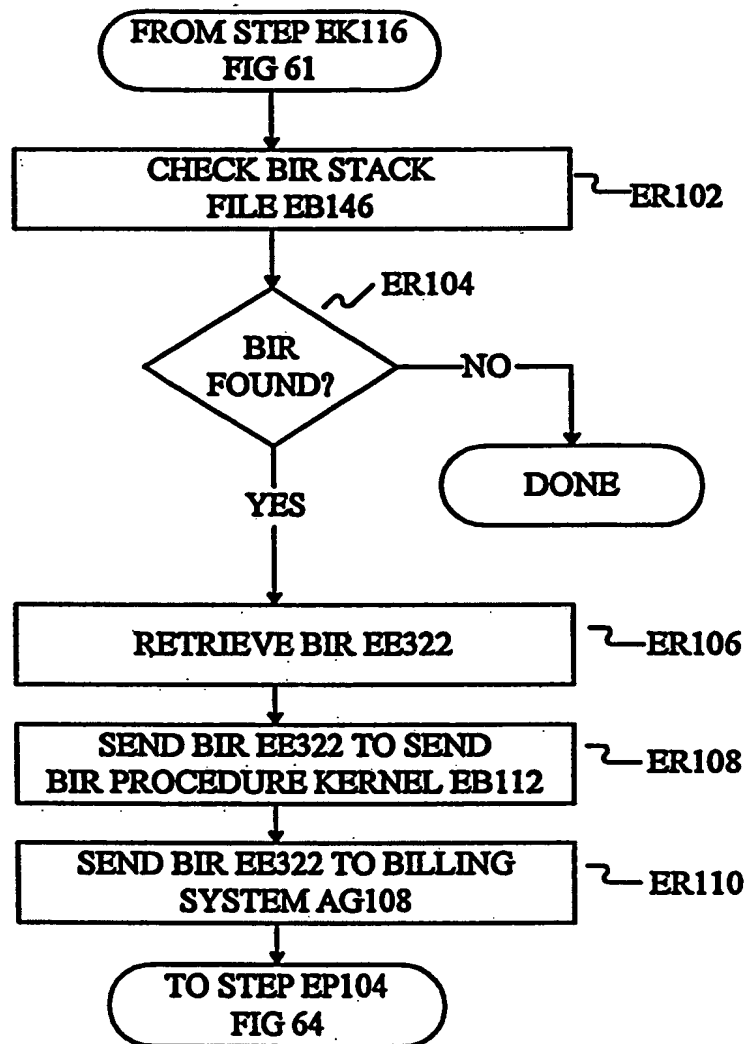


FIG 65

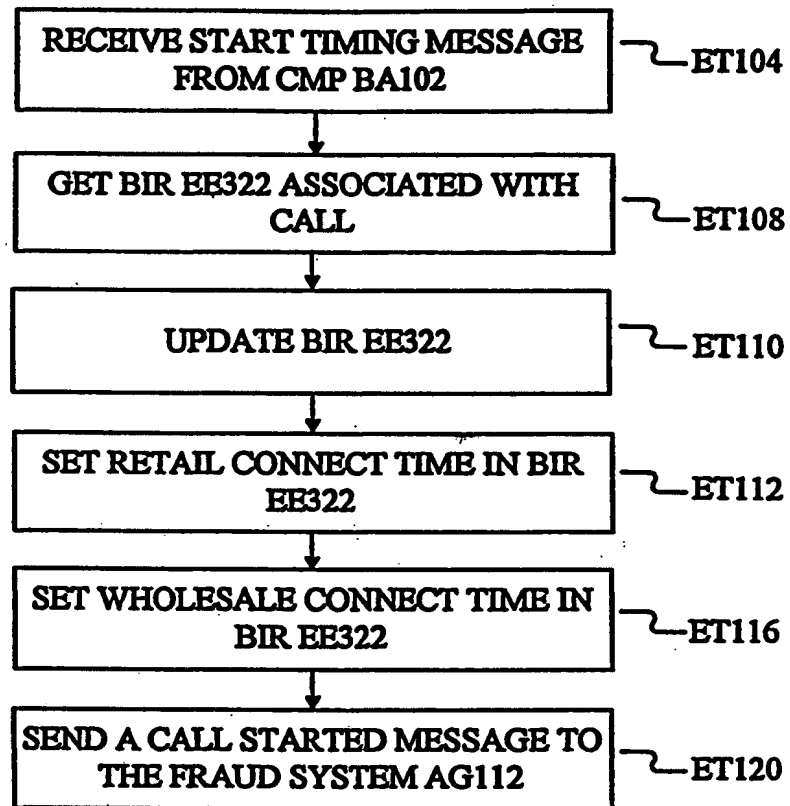


FIG 66

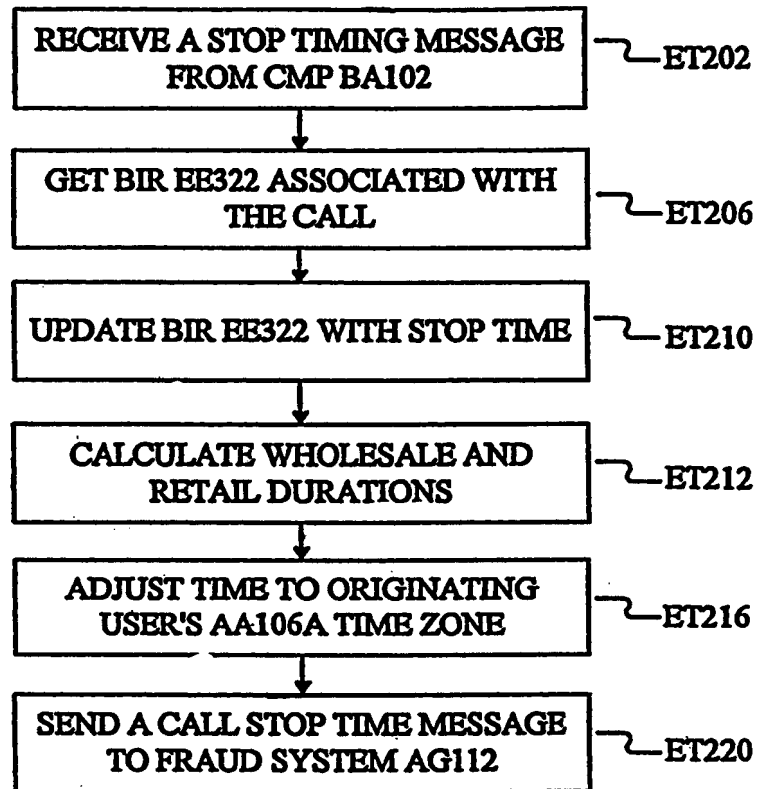


FIG 67

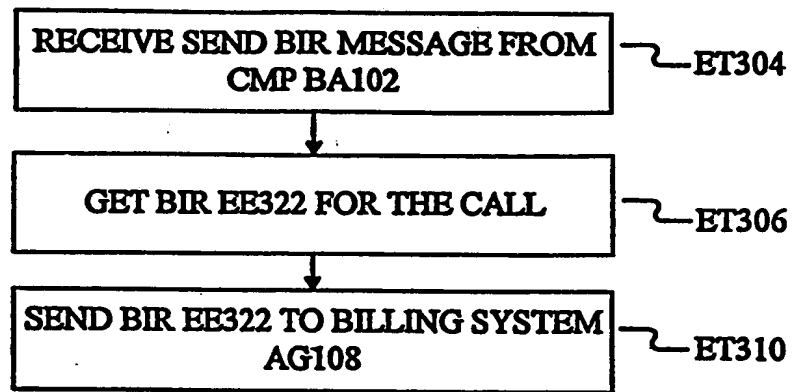


FIG 68

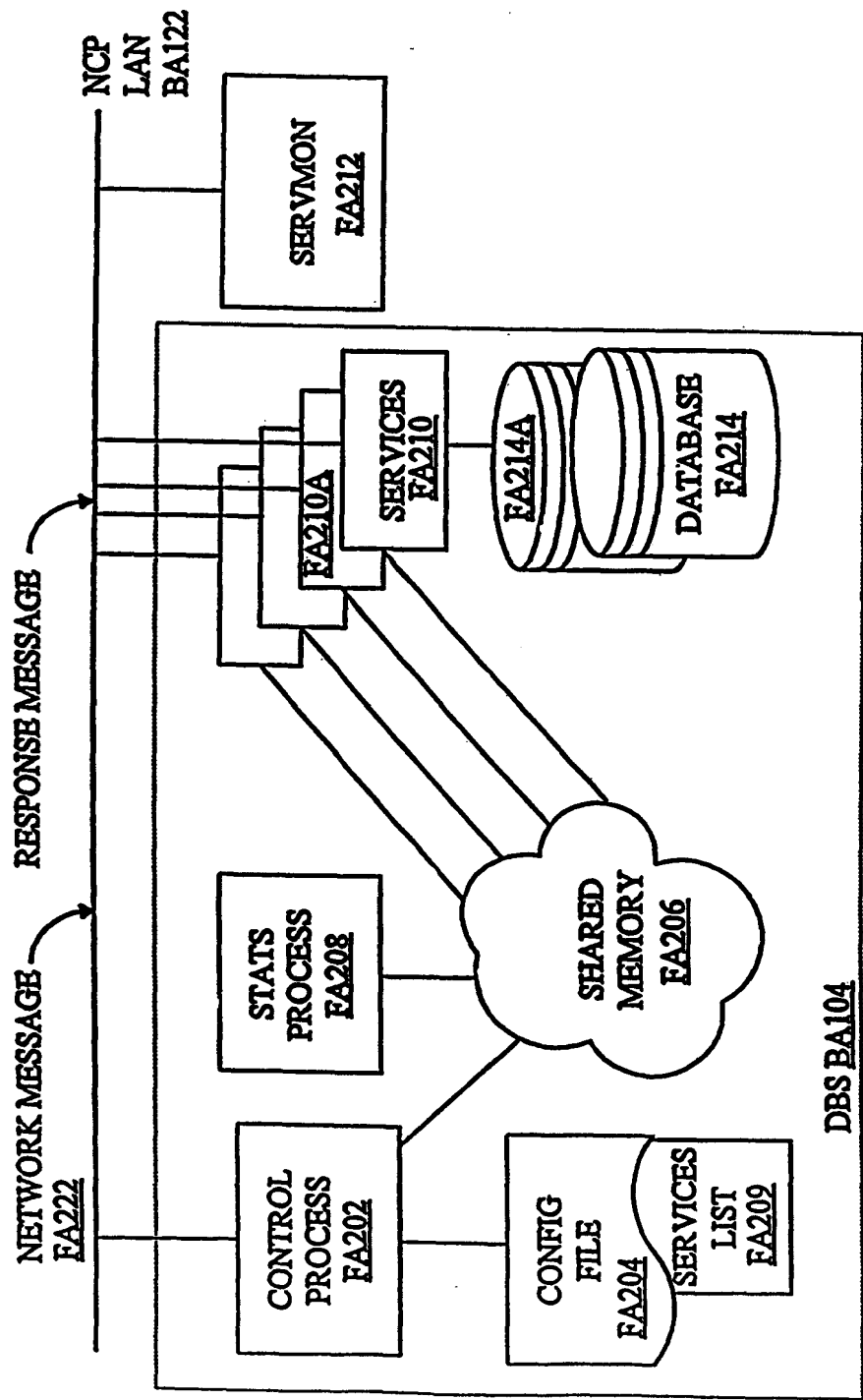


FIG 69

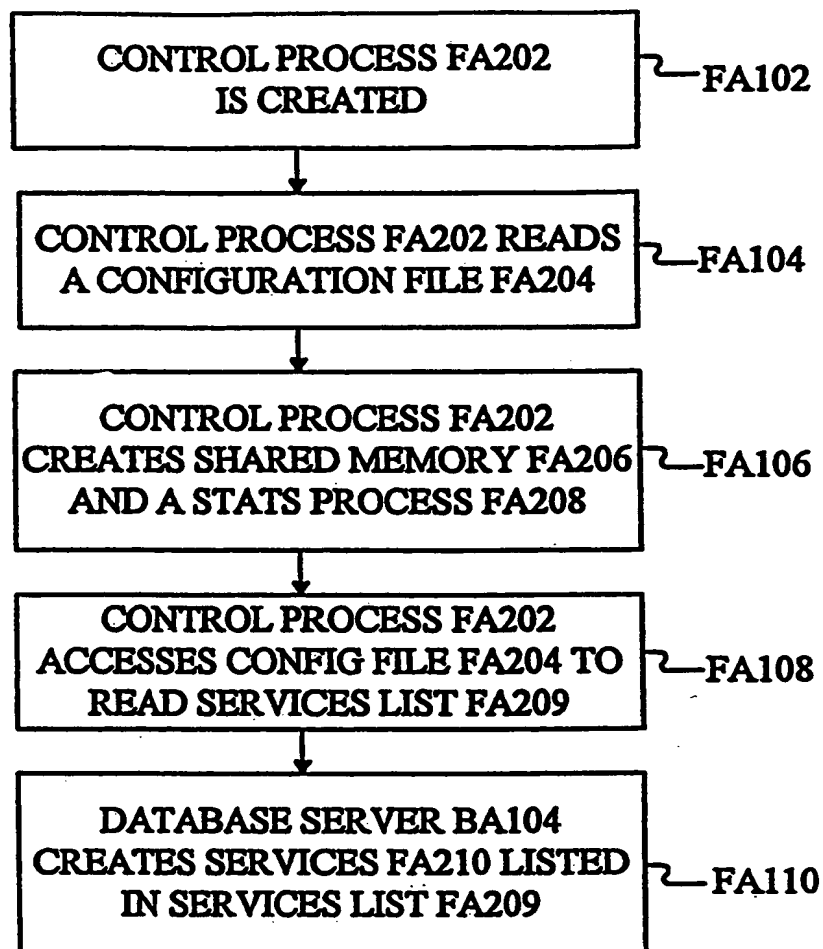


FIG 70

**FIG 72**

**FIG 73**

**FIG 71**

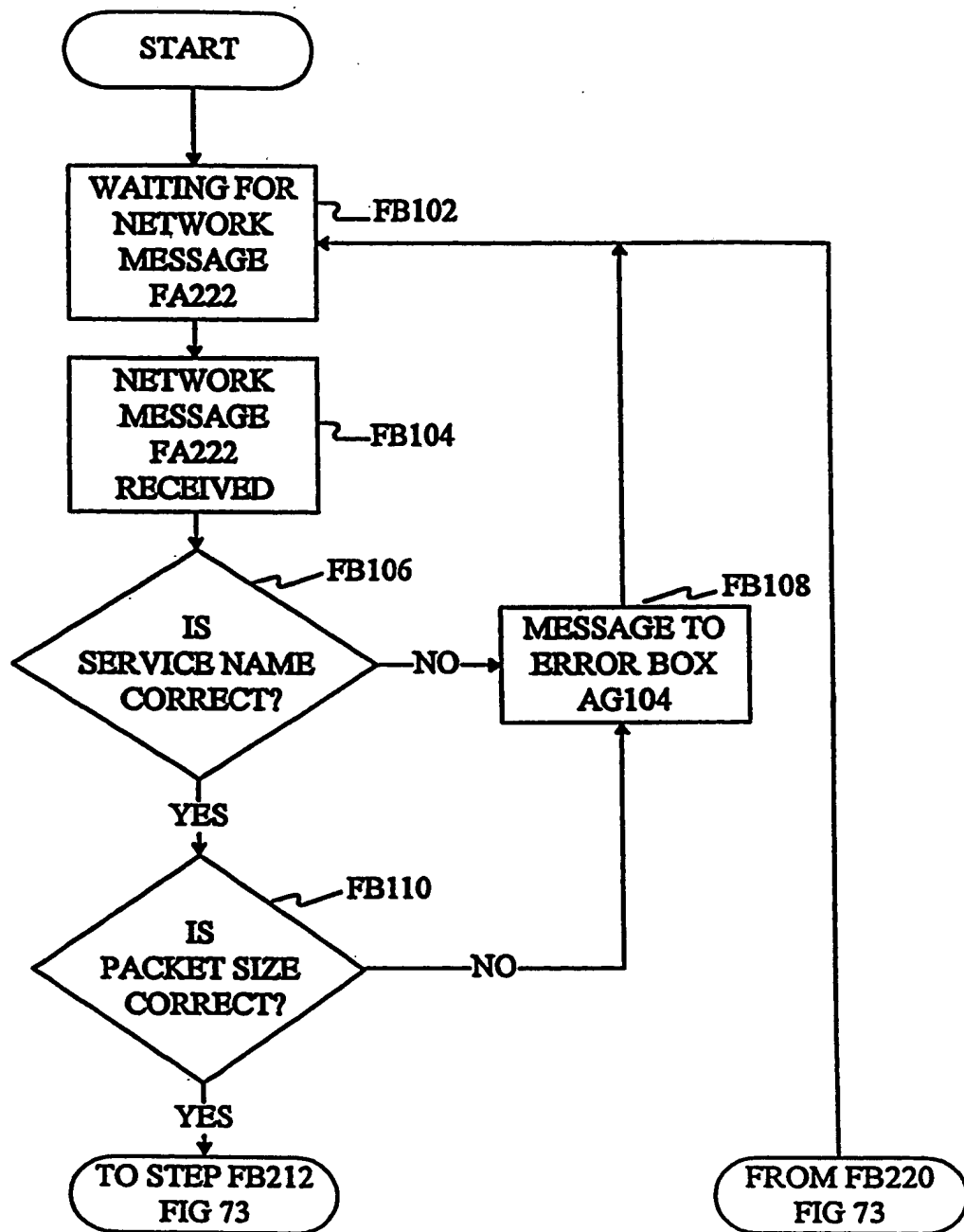


FIG 72



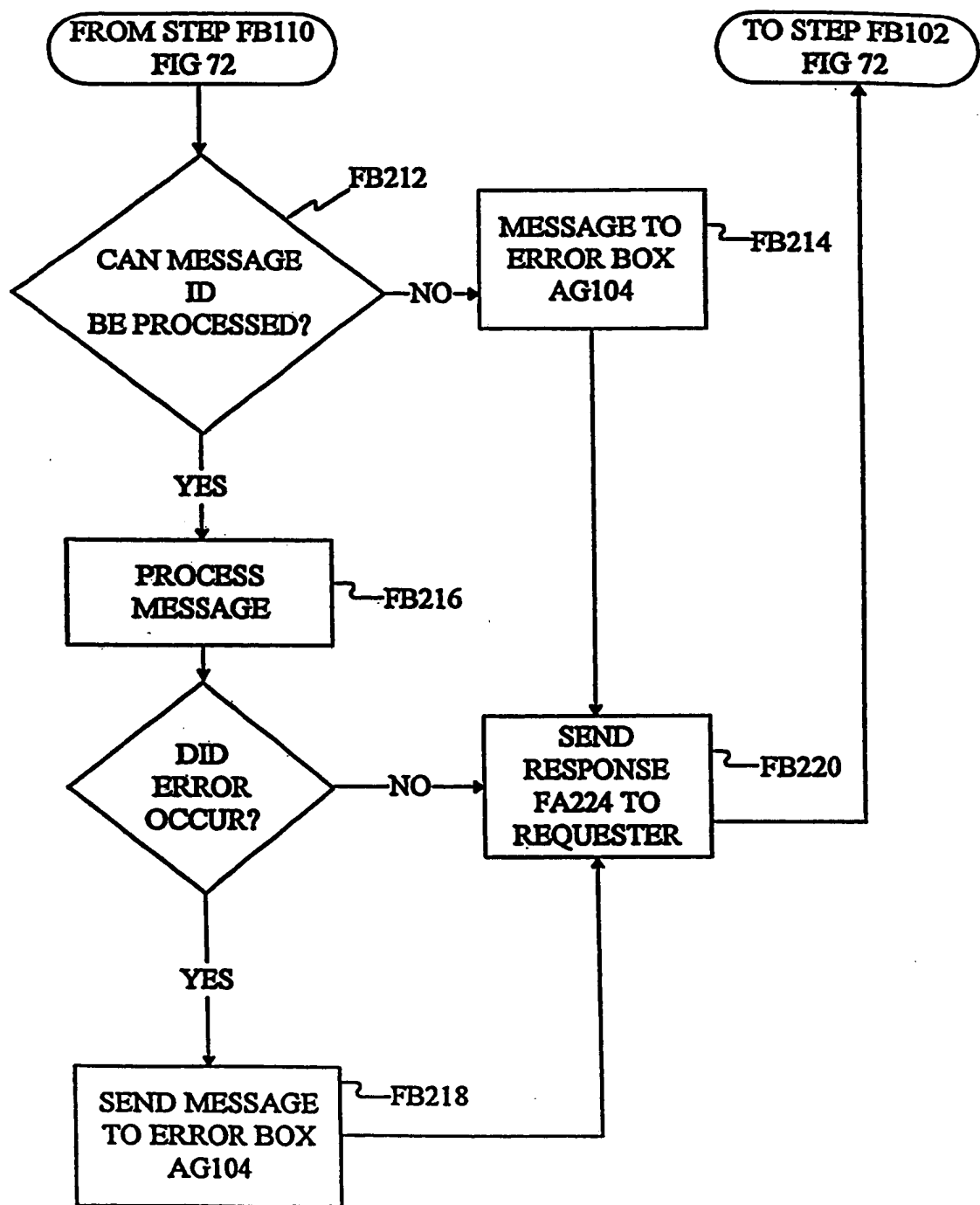


FIG 73

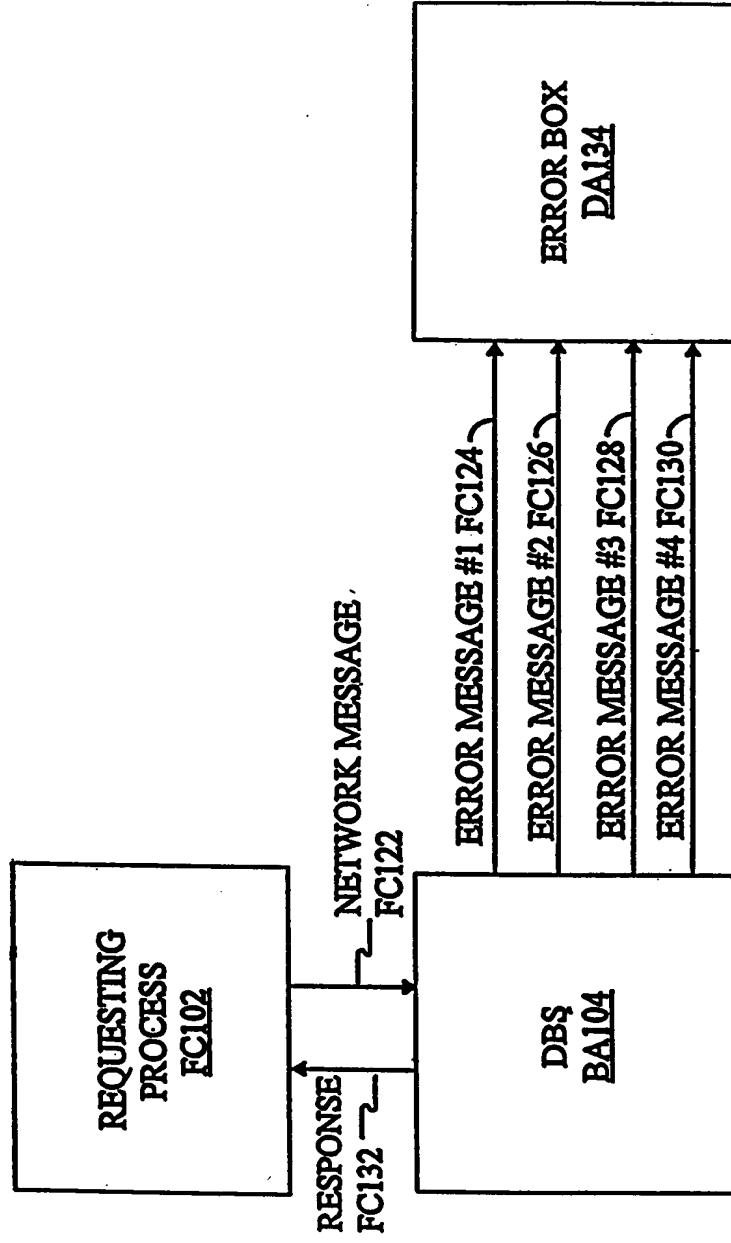


FIG 74

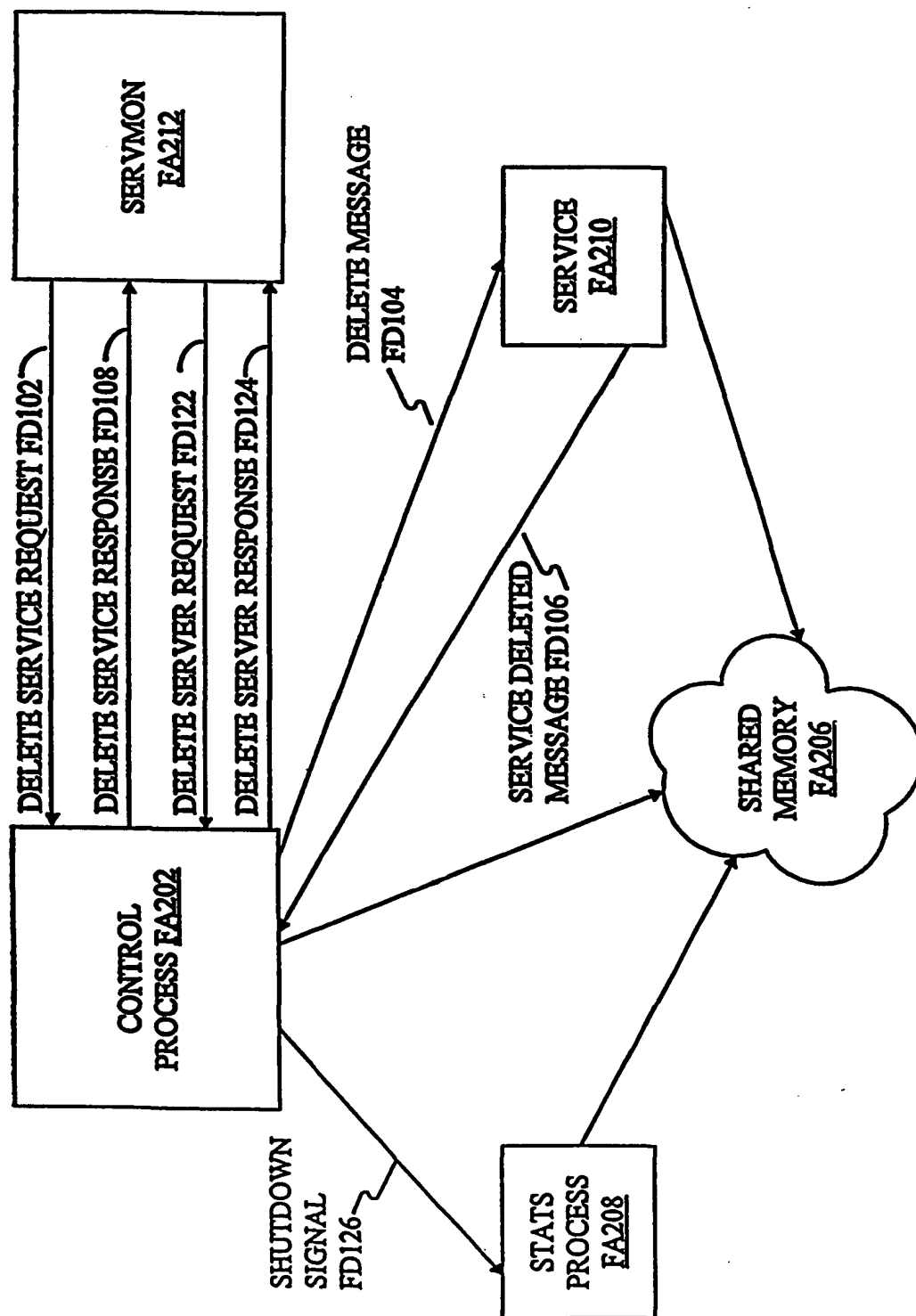


FIG 75

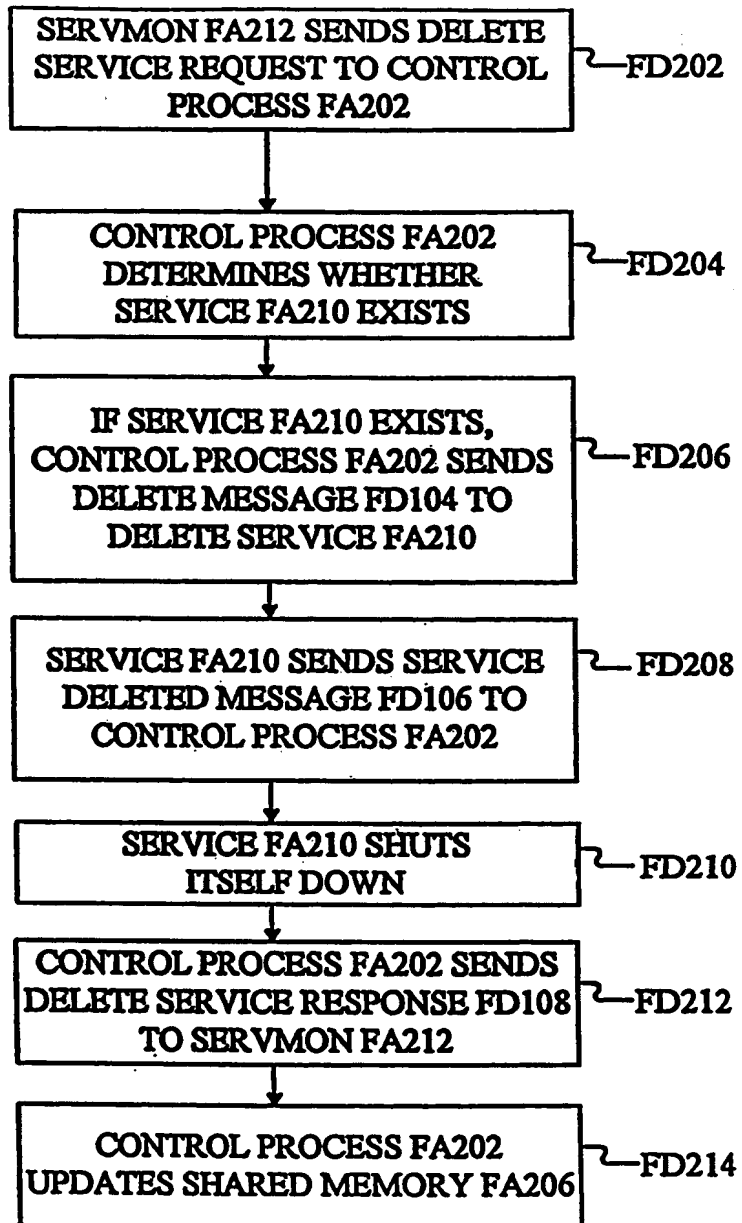


FIG 76

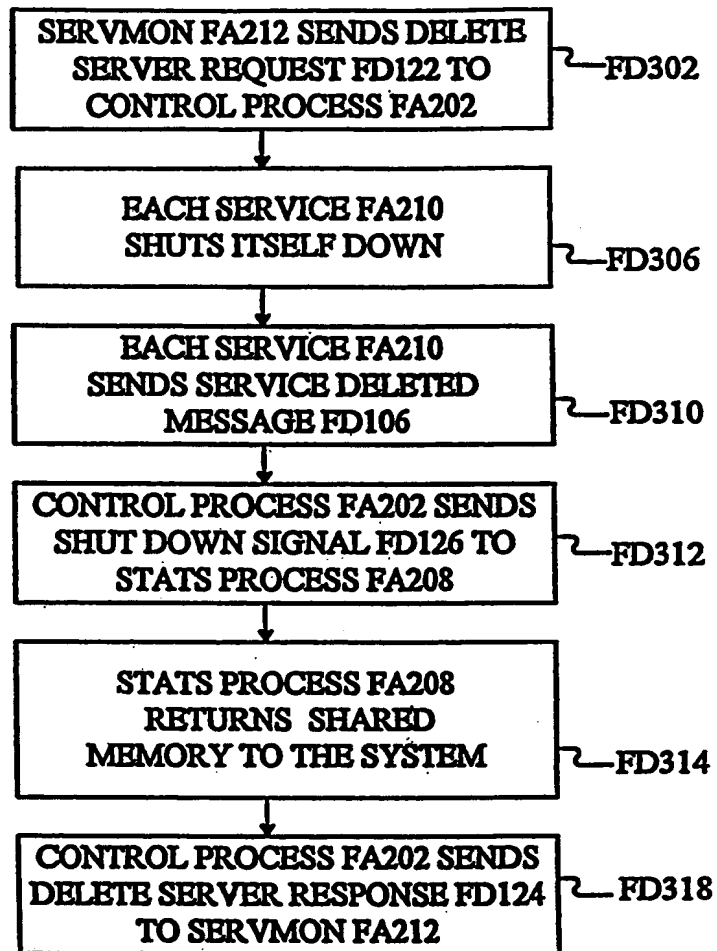


FIG 77

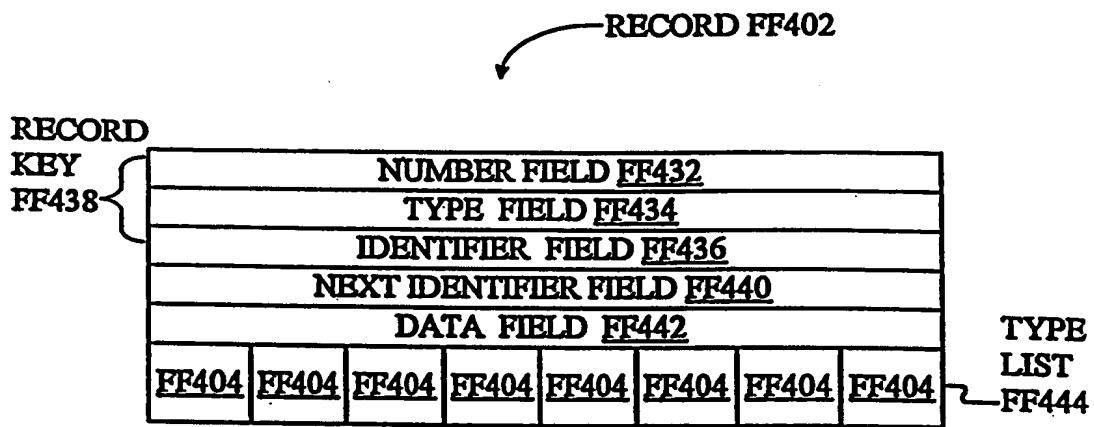


FIG 78A

SEARCH KEY FF802 ↘

NUMBER FIELD <u>FF832</u>
TYPE FIELD <u>FF834</u>
IDENTIFIER <u>FF836</u>

DEFAULT RECORD FF804 ↘

DEFAULT DATA <u>FF844</u>
---------------------------

FIG 78B

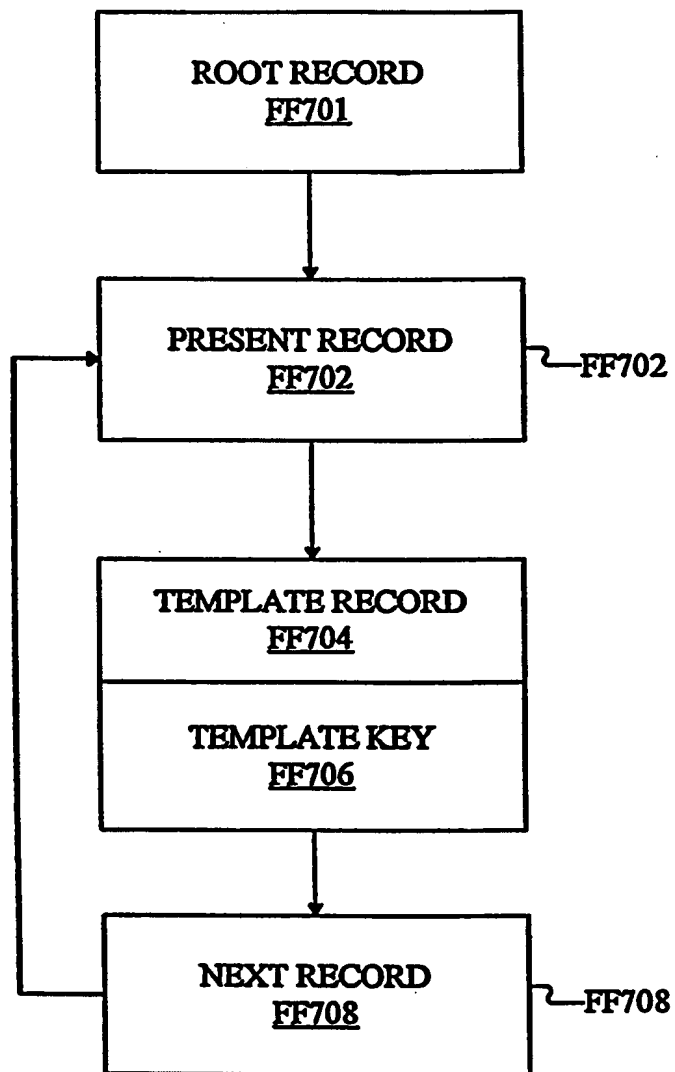


FIG 79



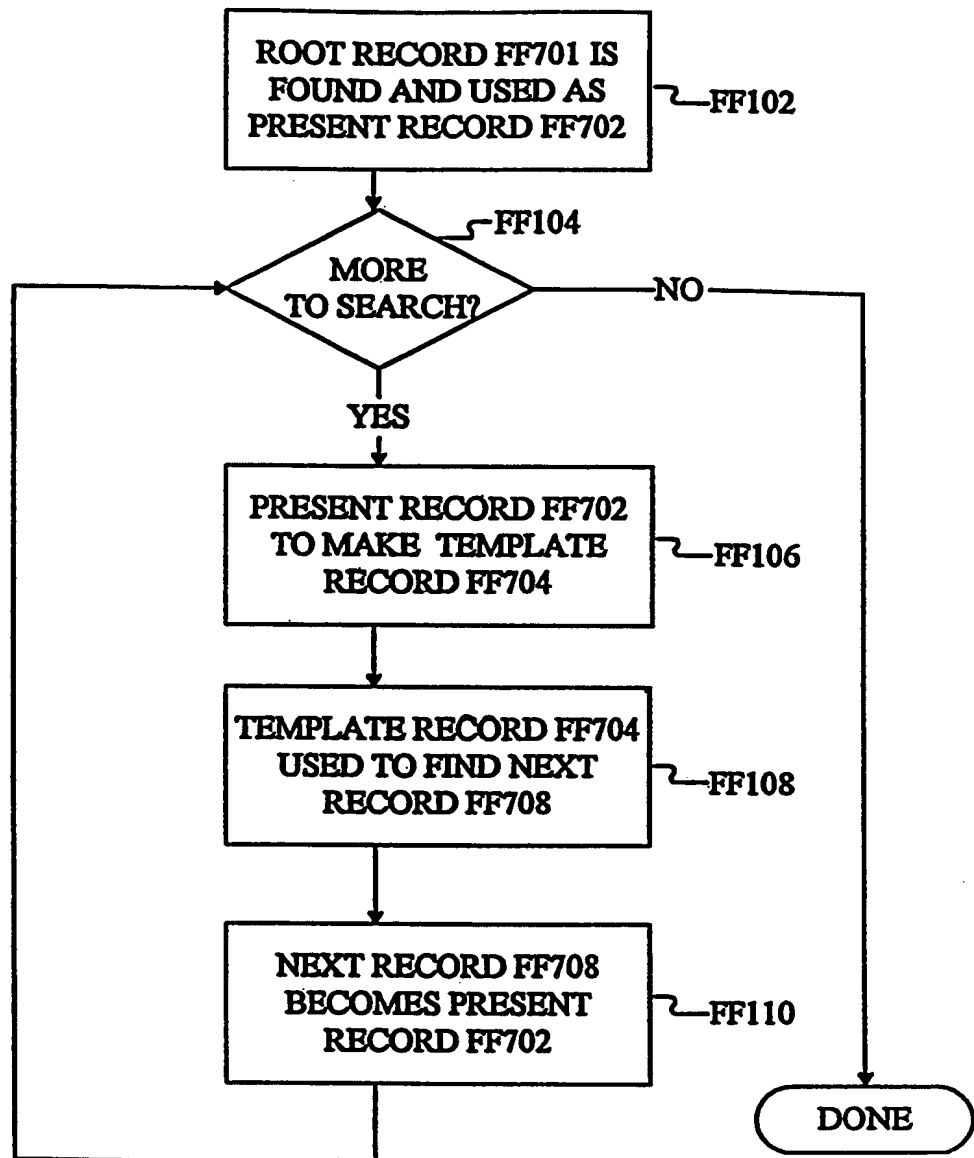


FIG 80

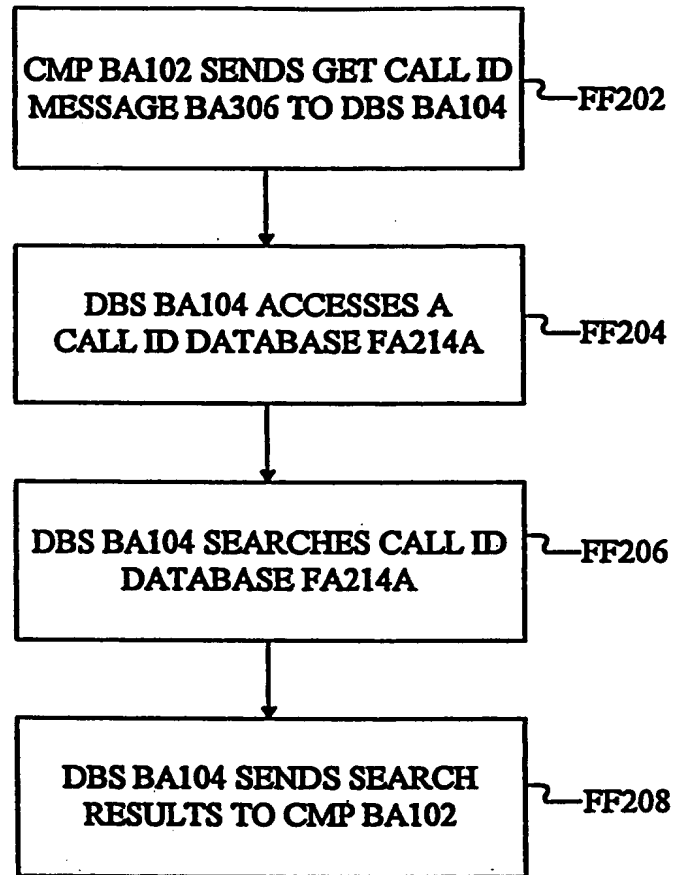
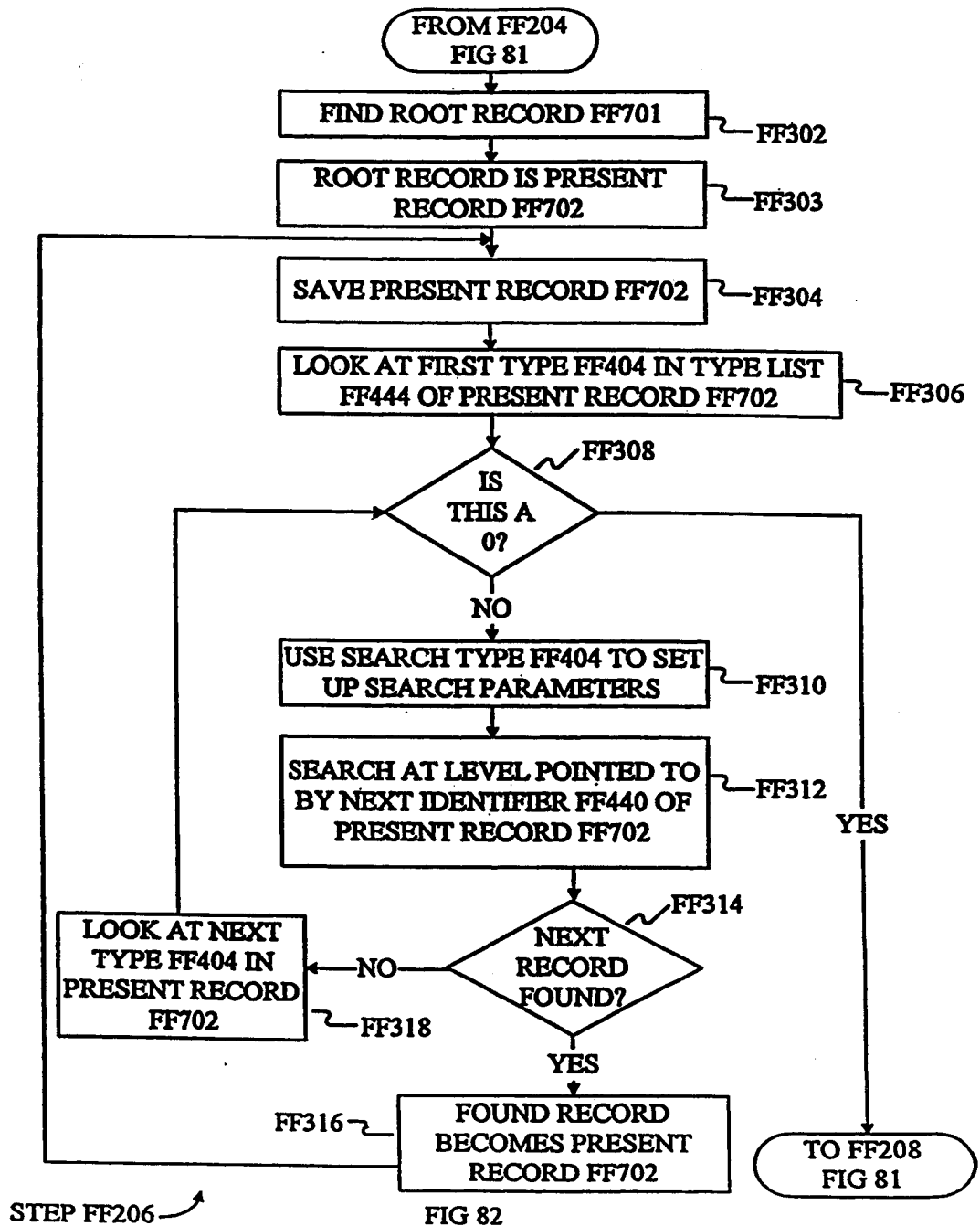


FIG 81



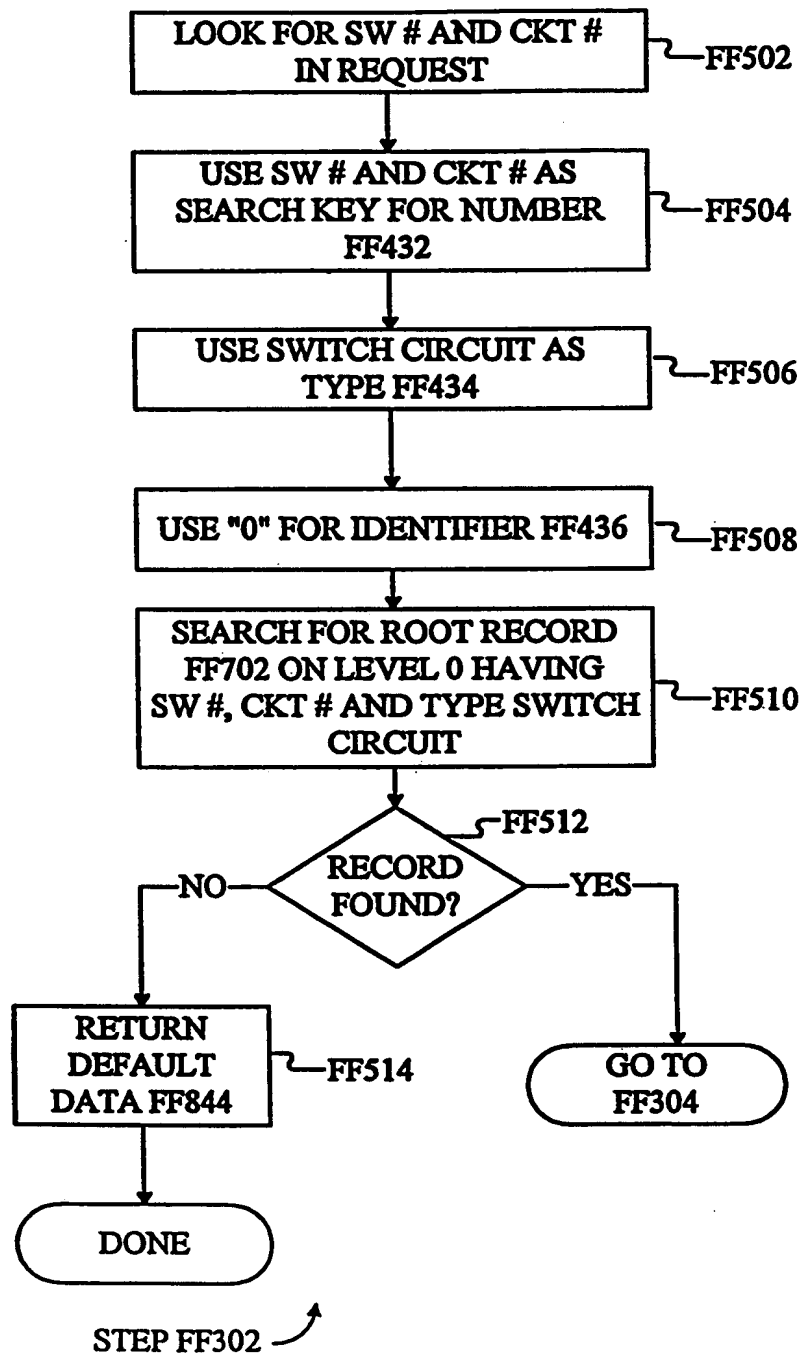


FIG 83

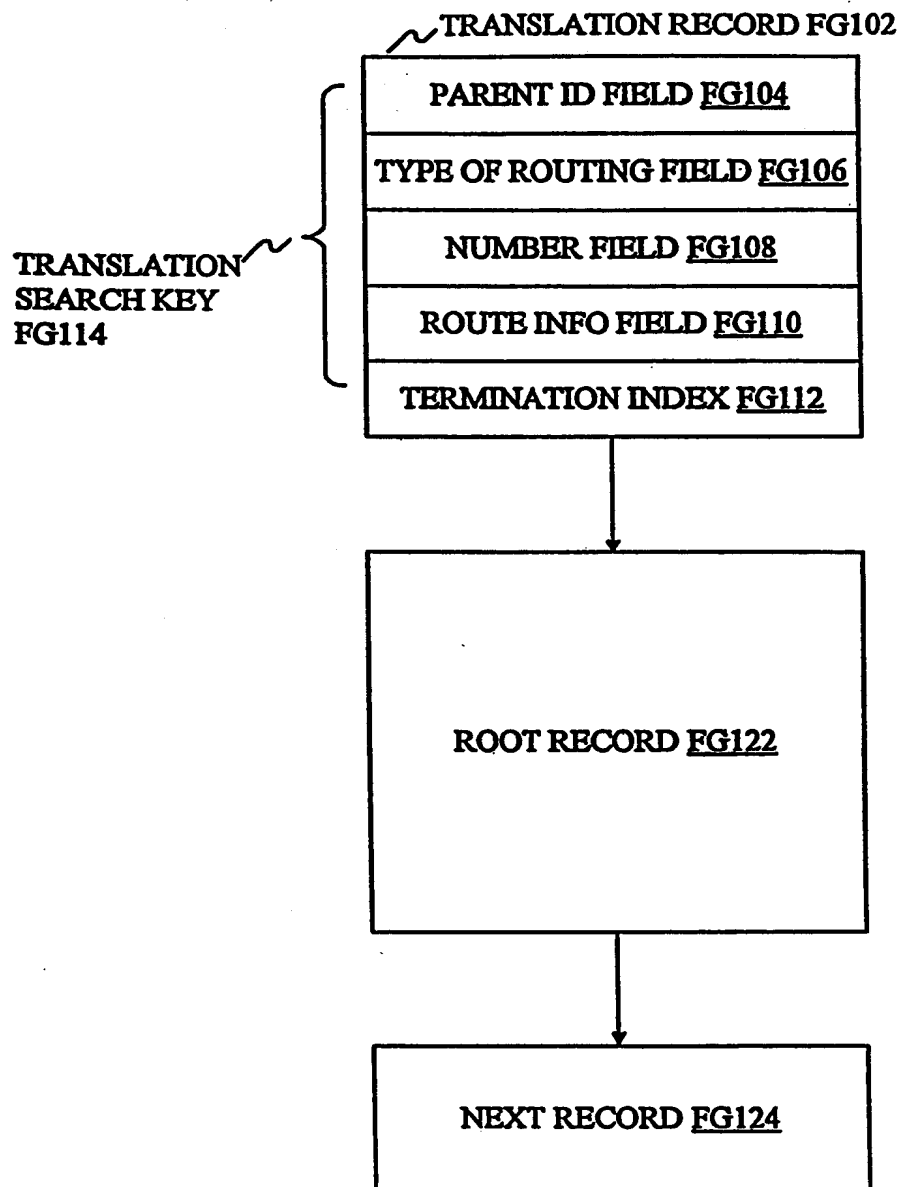


FIG 84

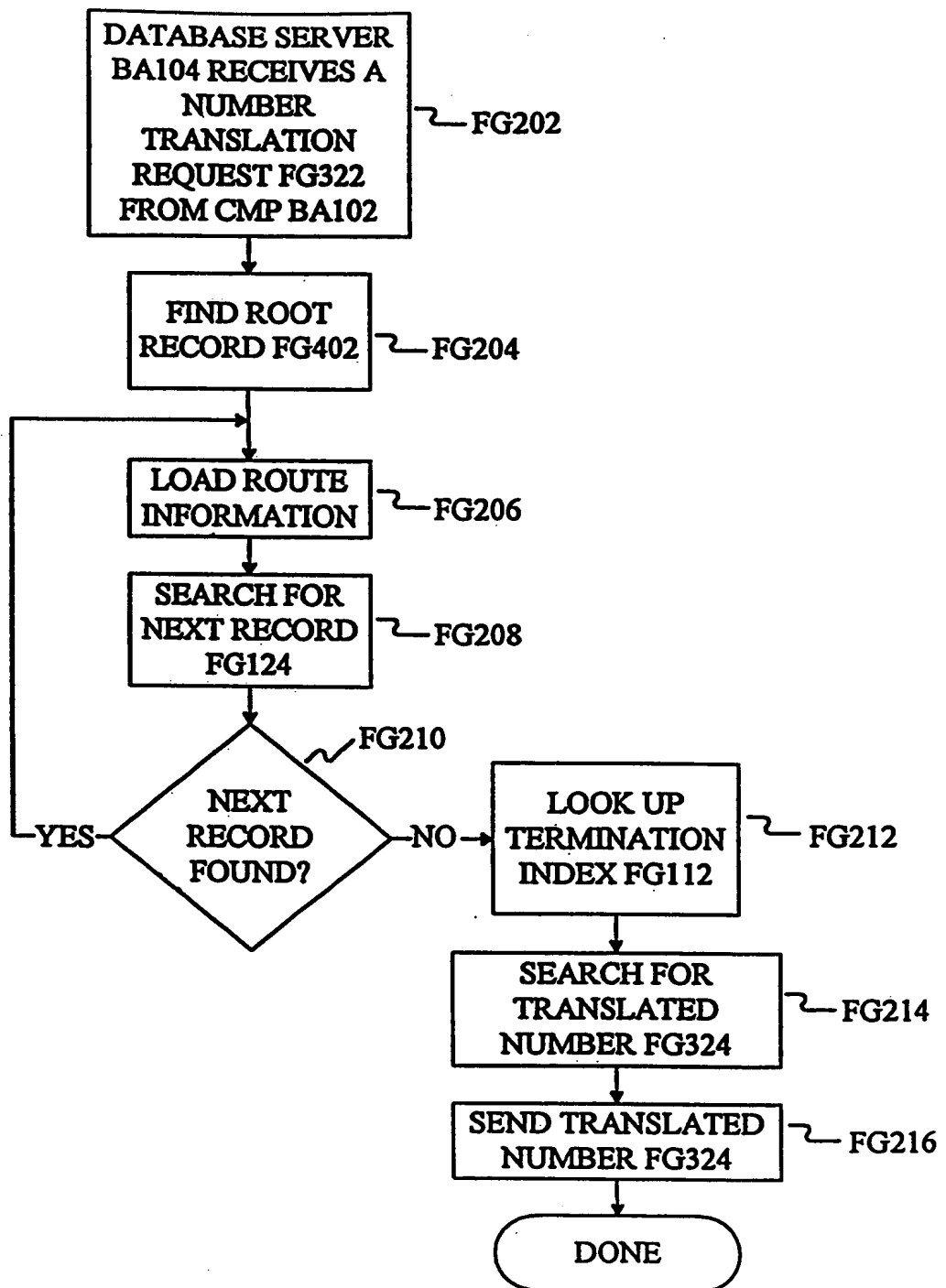


FIG 85

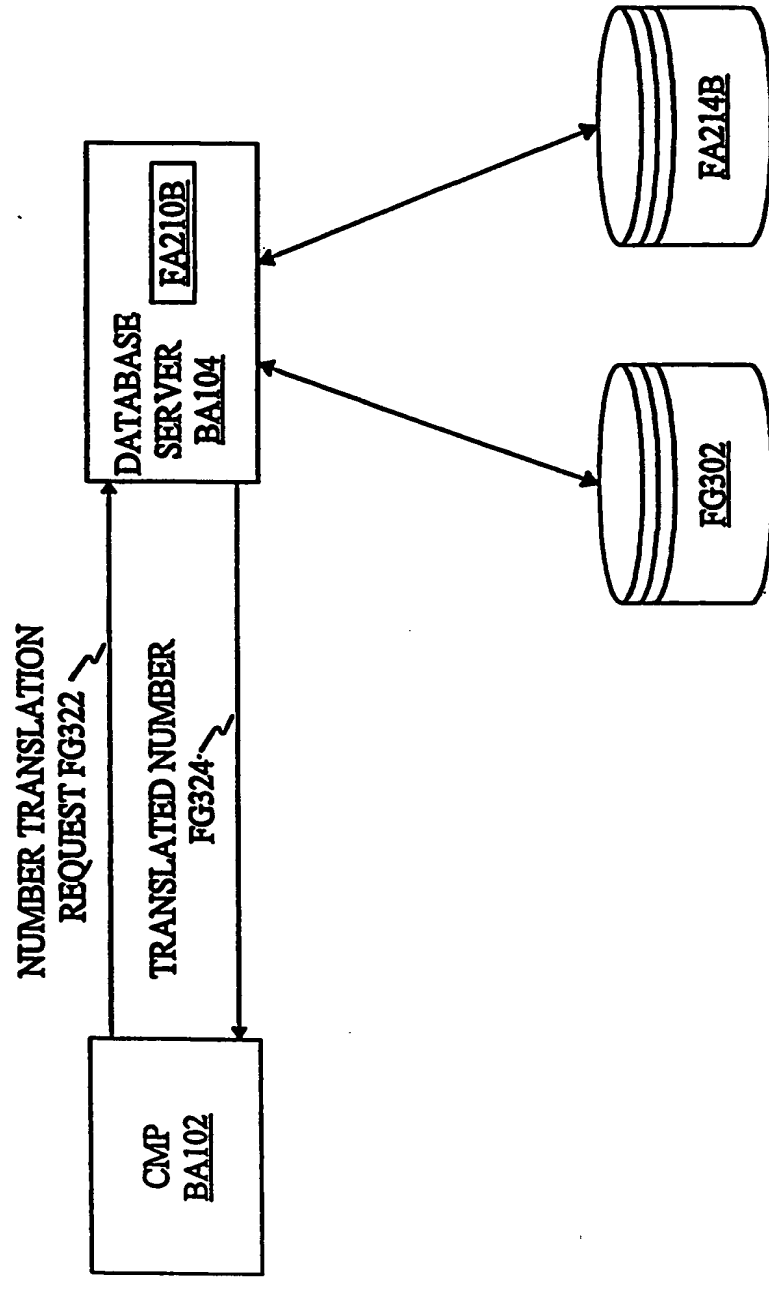


FIG 86

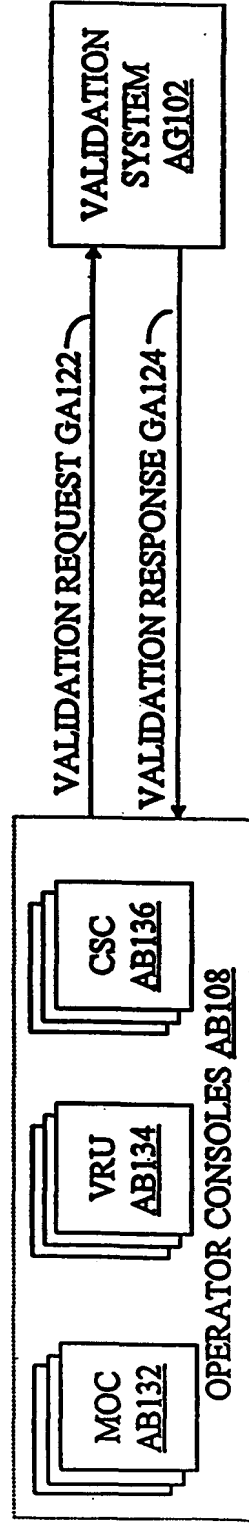


FIG 87



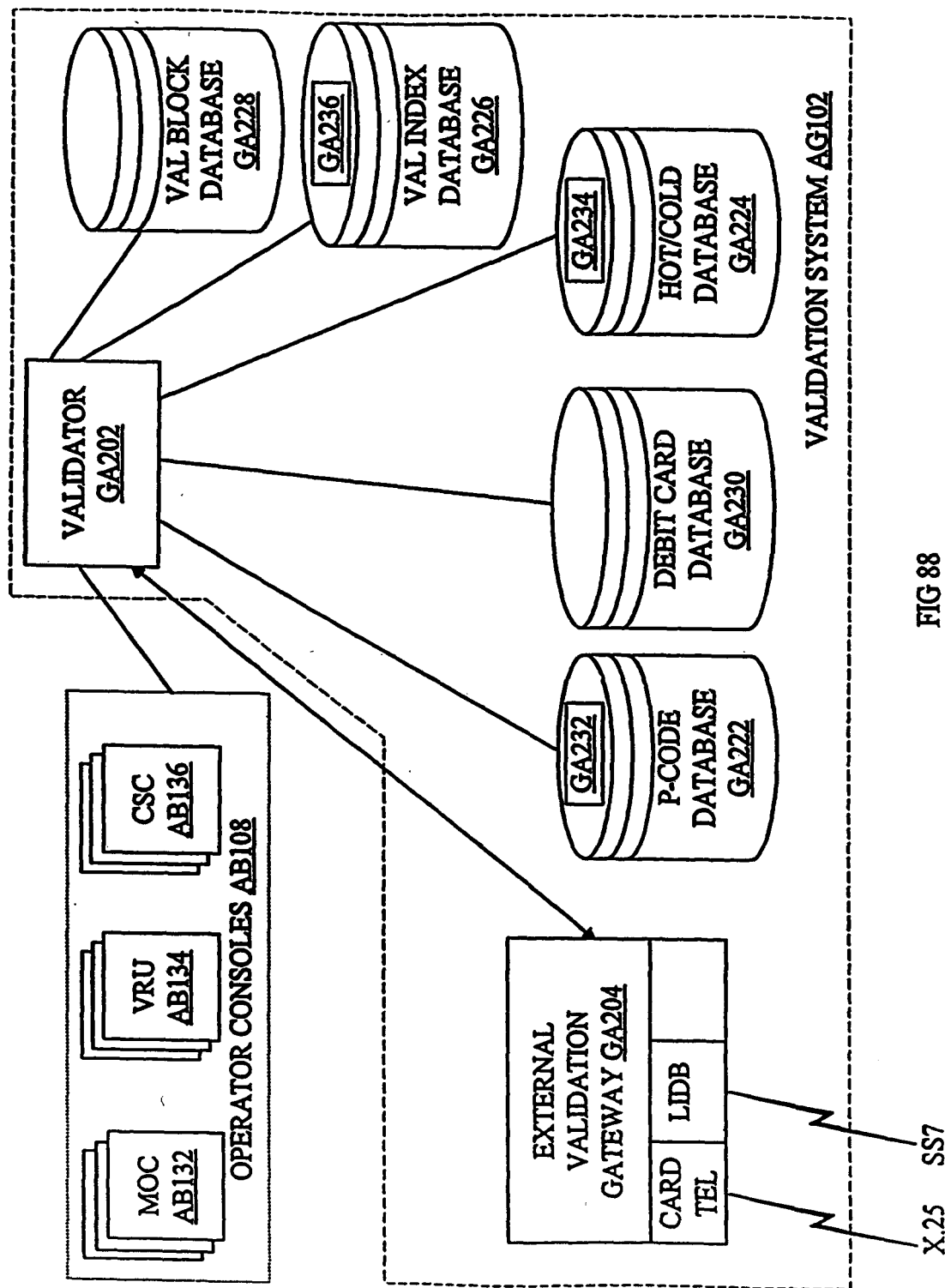


FIG 88

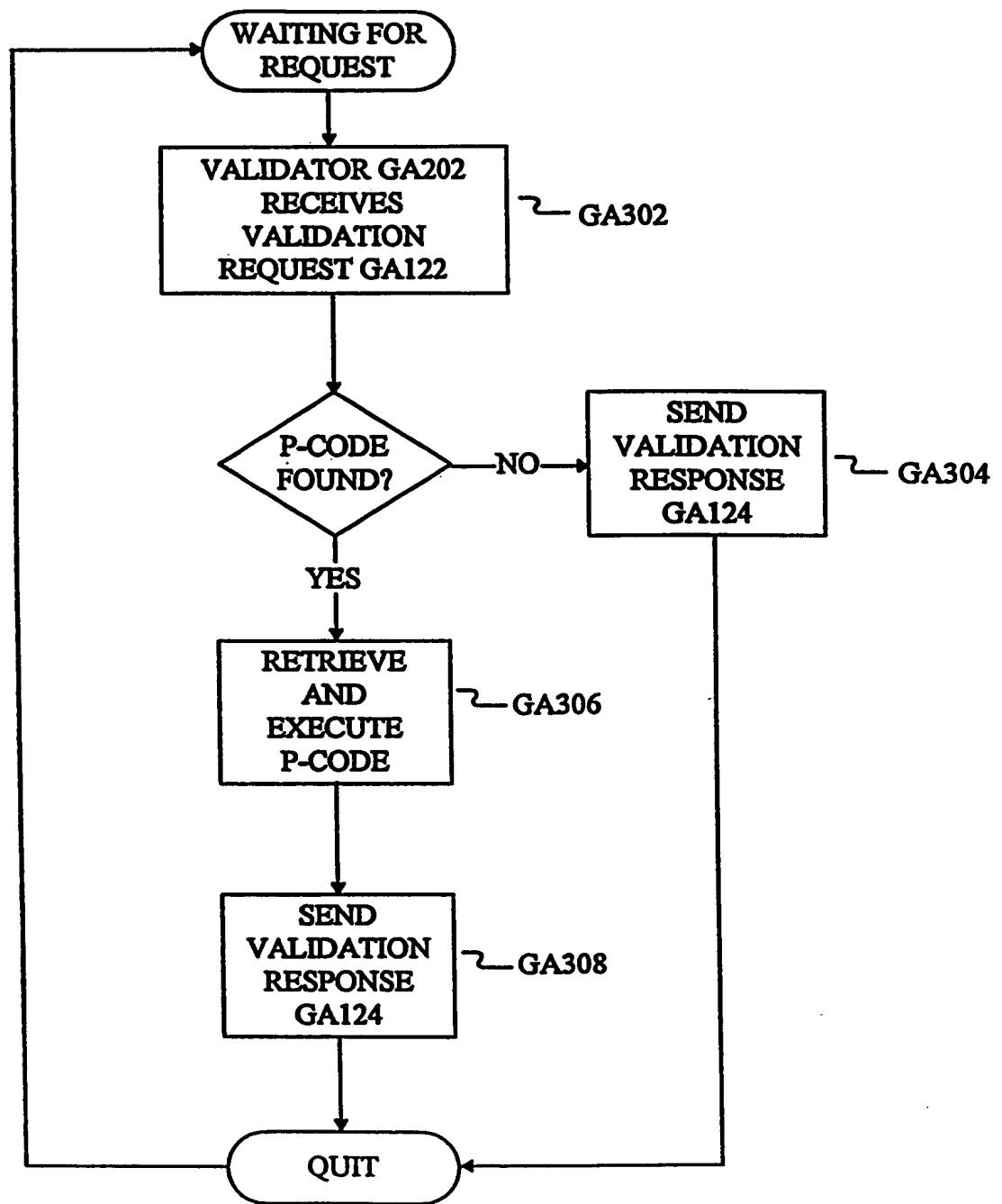


FIG 89

**FIG 91**

**FIG 92**

**FIG 90**

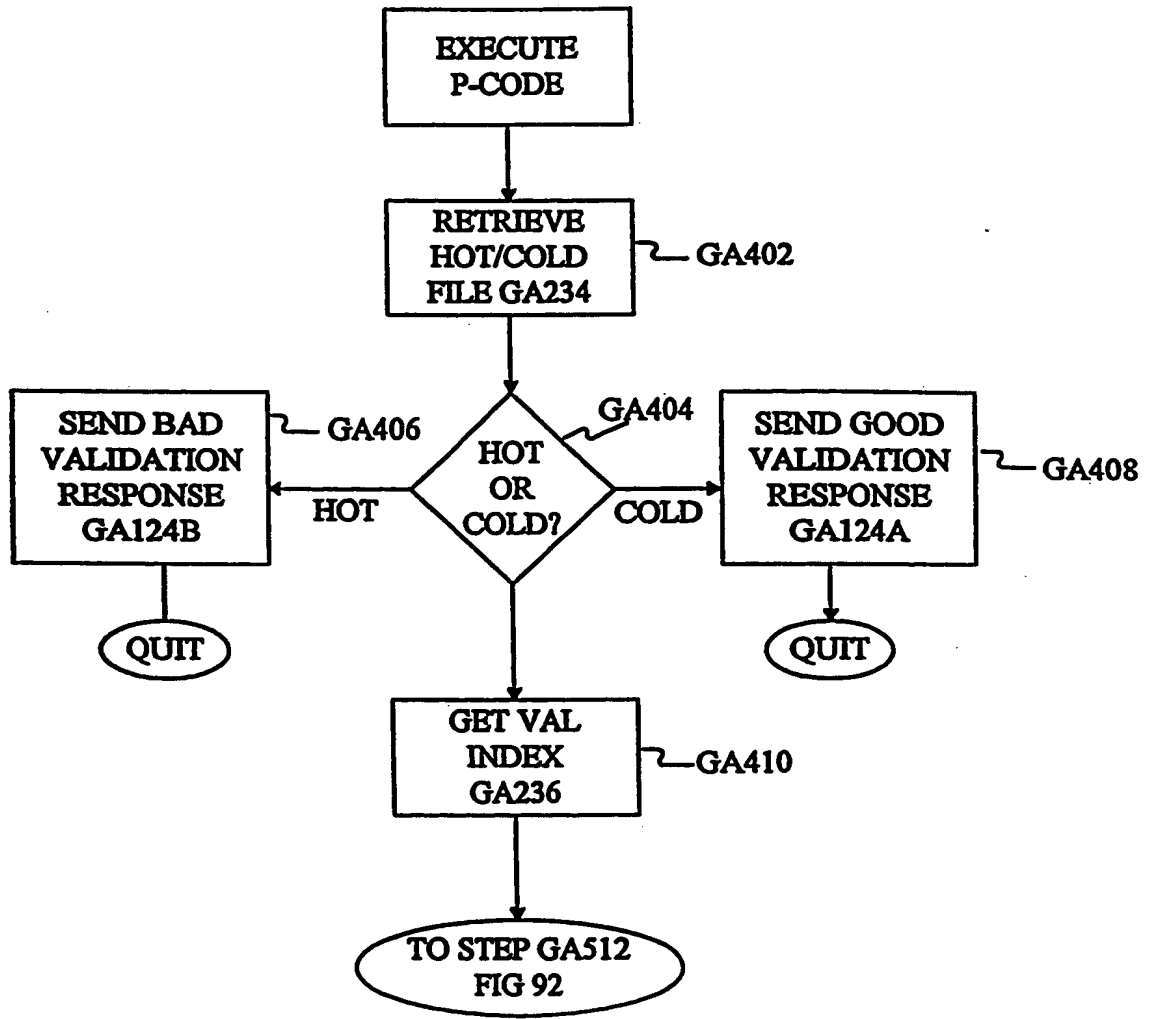


FIG 91

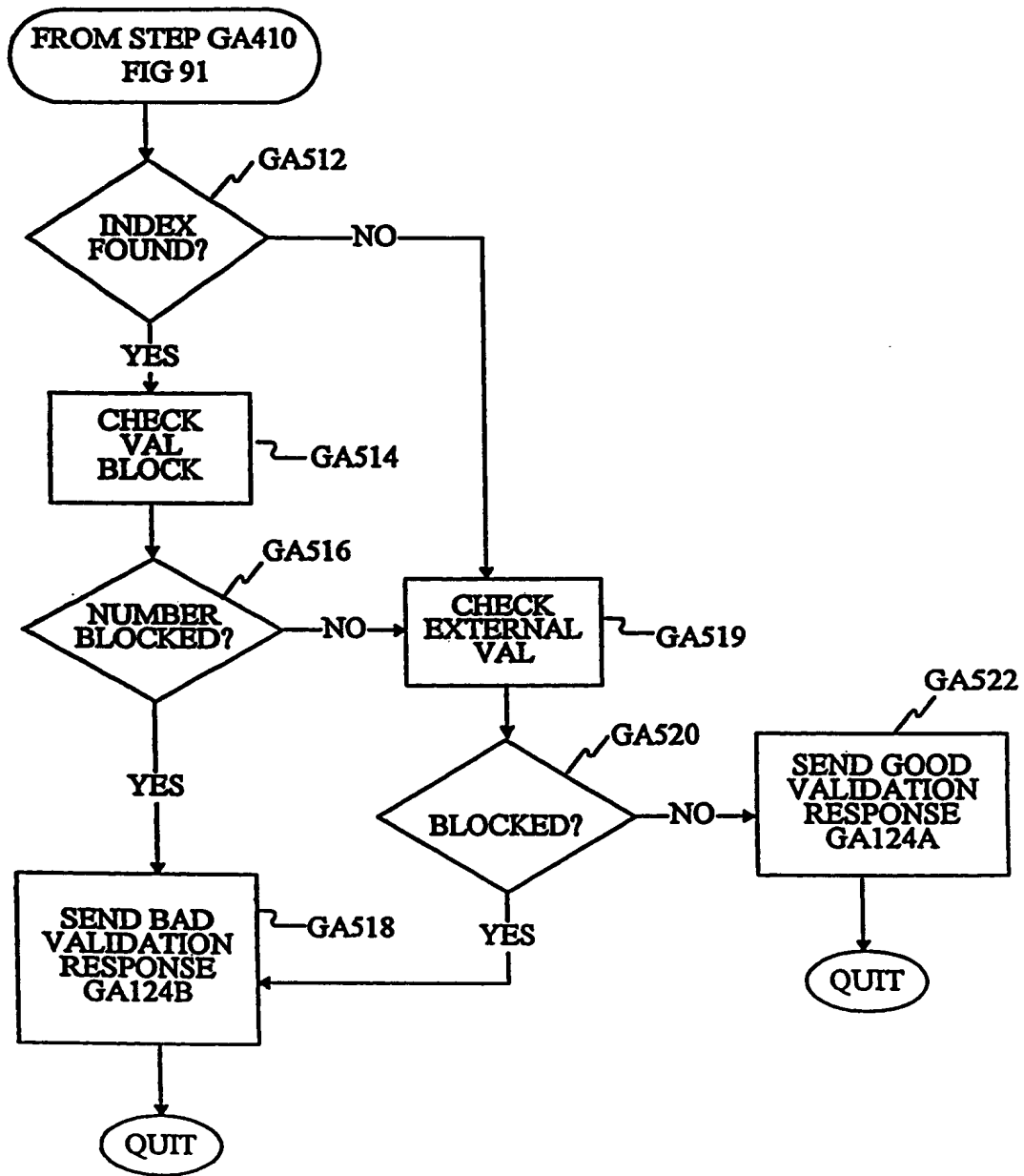


FIG 92

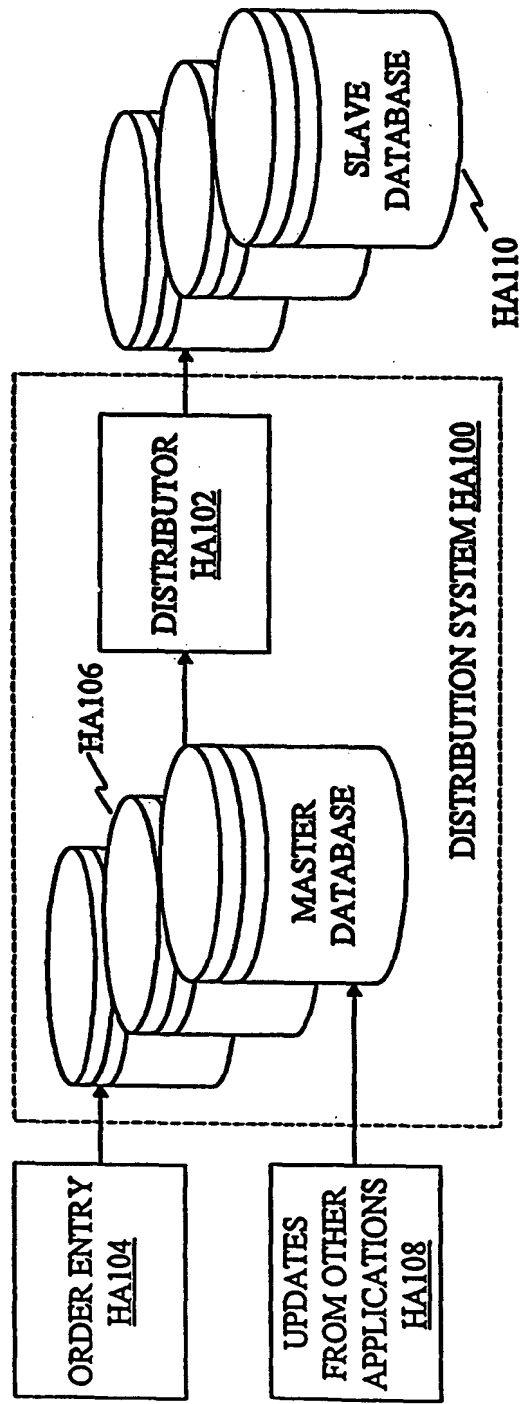


FIG 93

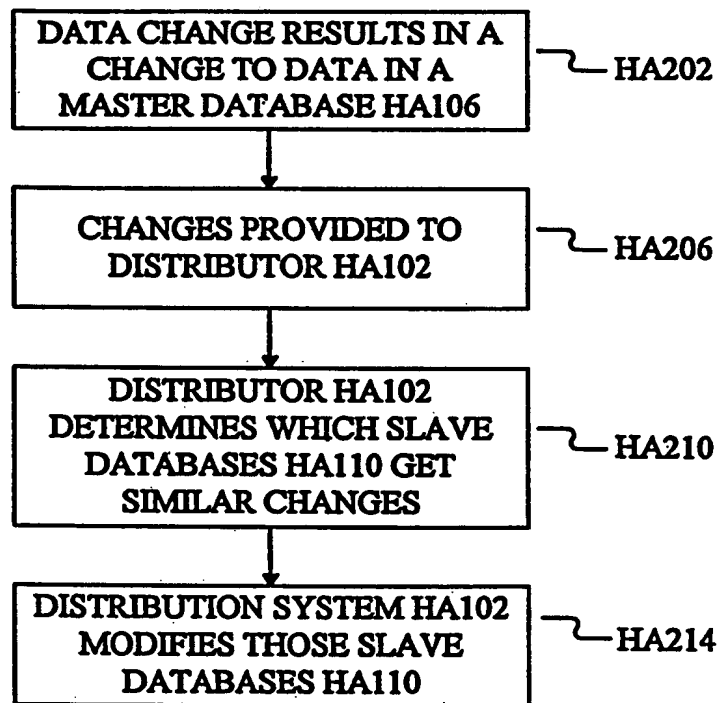


FIG 94

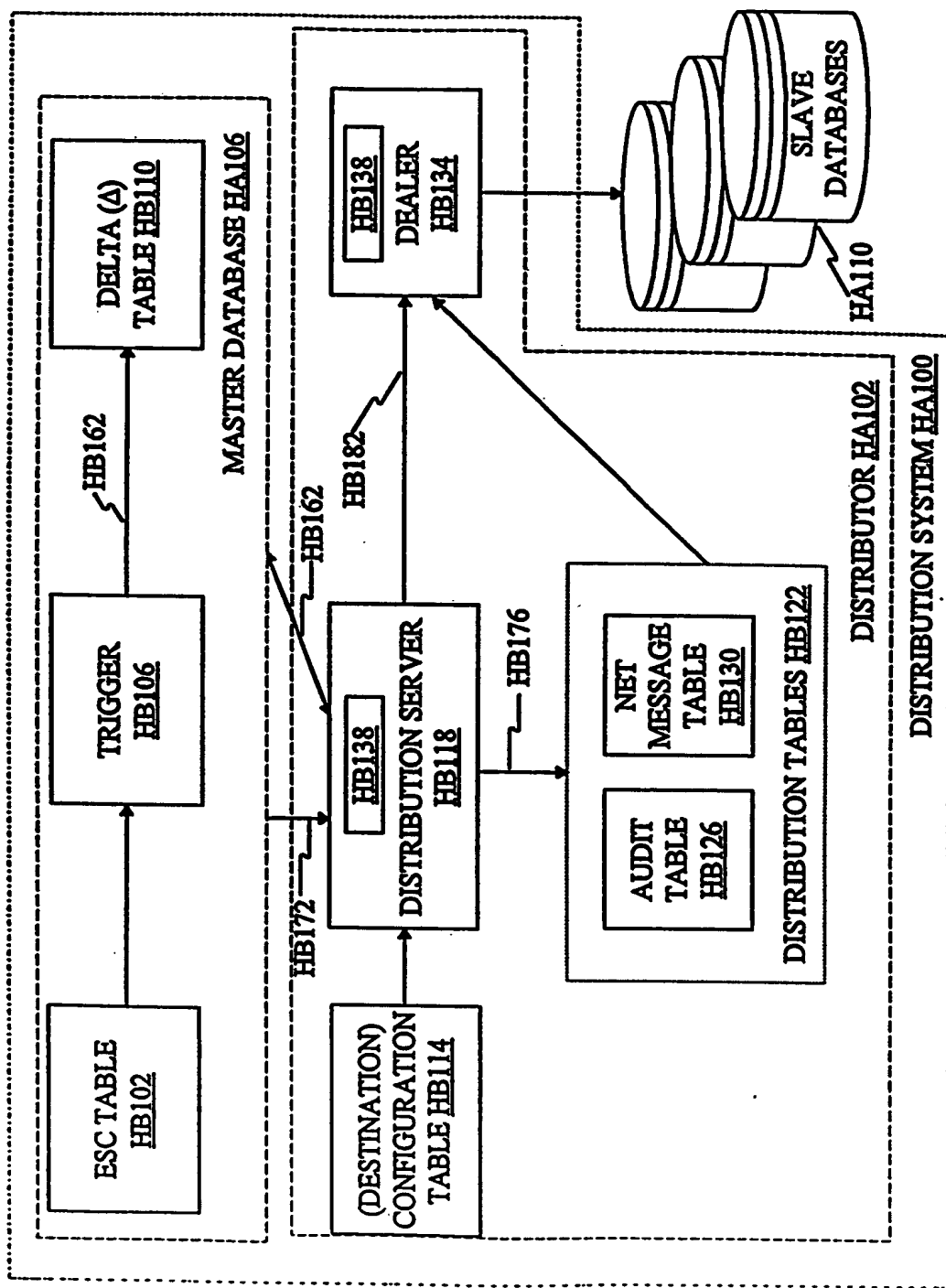


FIG 95



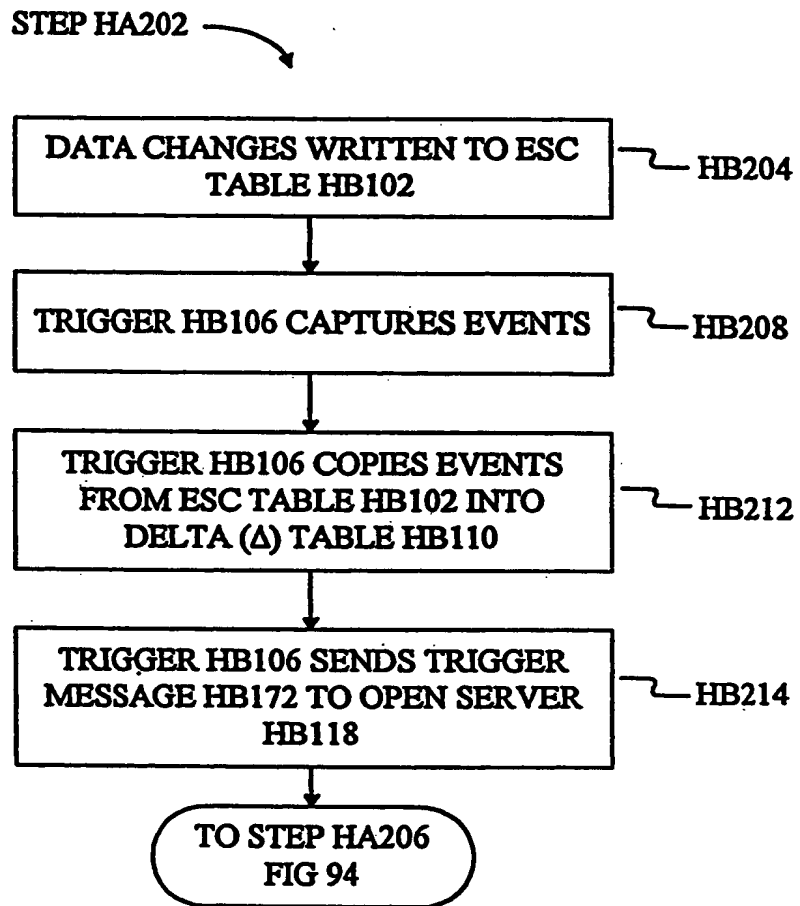


FIG 96

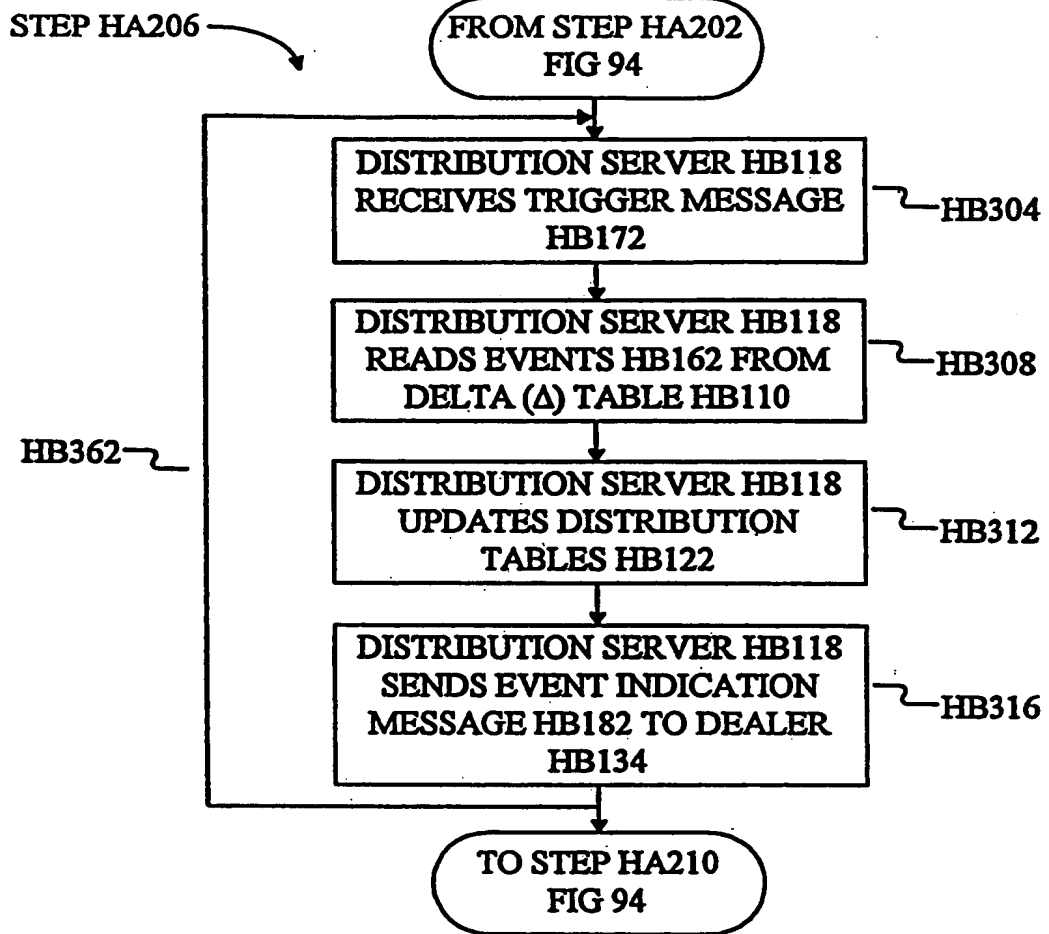


FIG 97

AUDIT TABLE HB126 

SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>
SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>
SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>

FIG 98

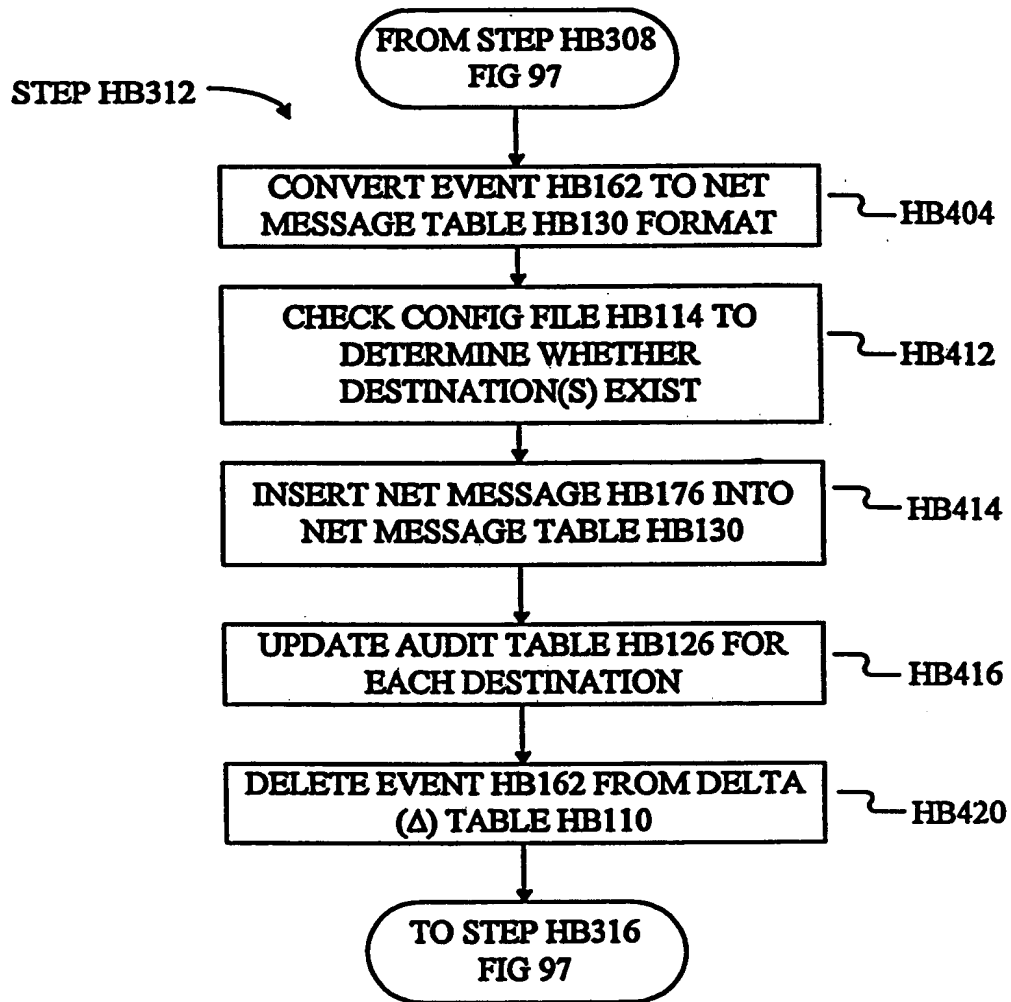


FIG 99

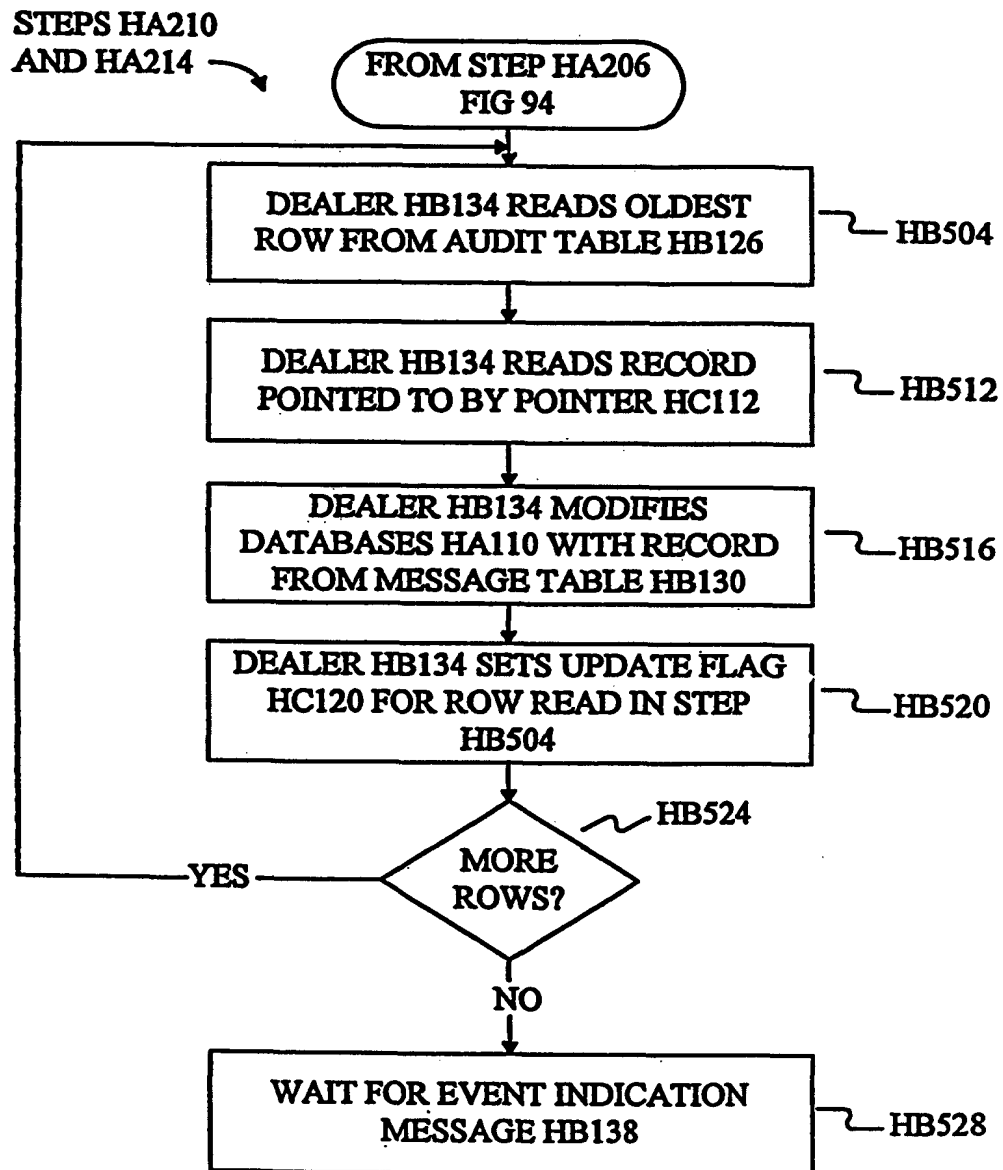


FIG 100

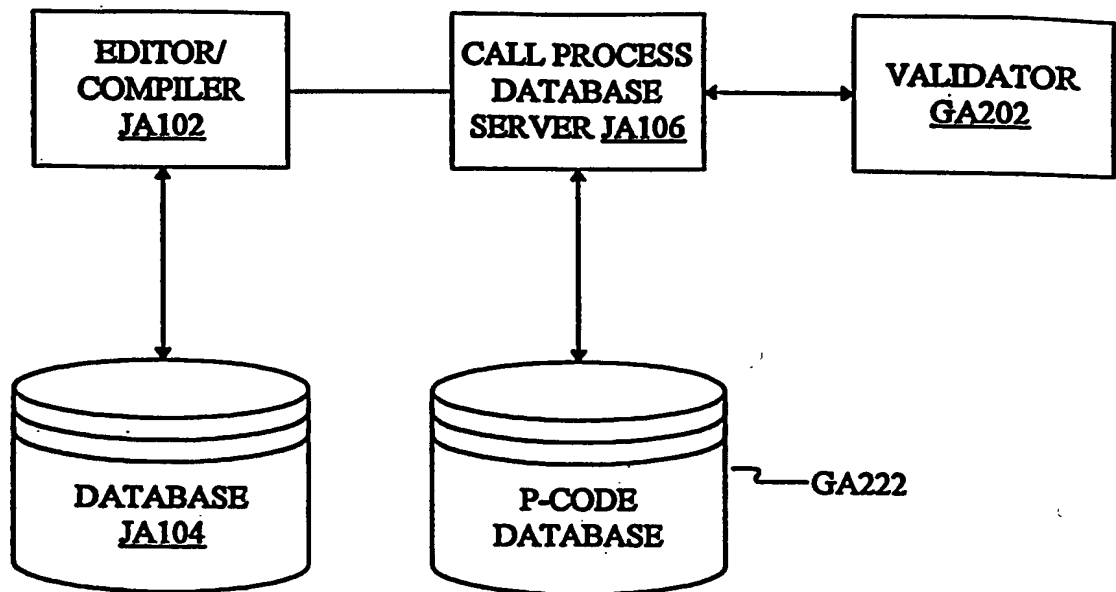


FIG 101

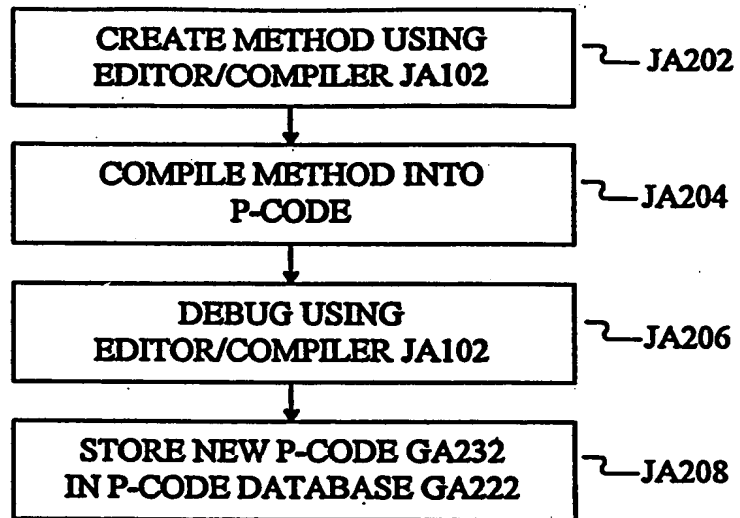


FIG 102

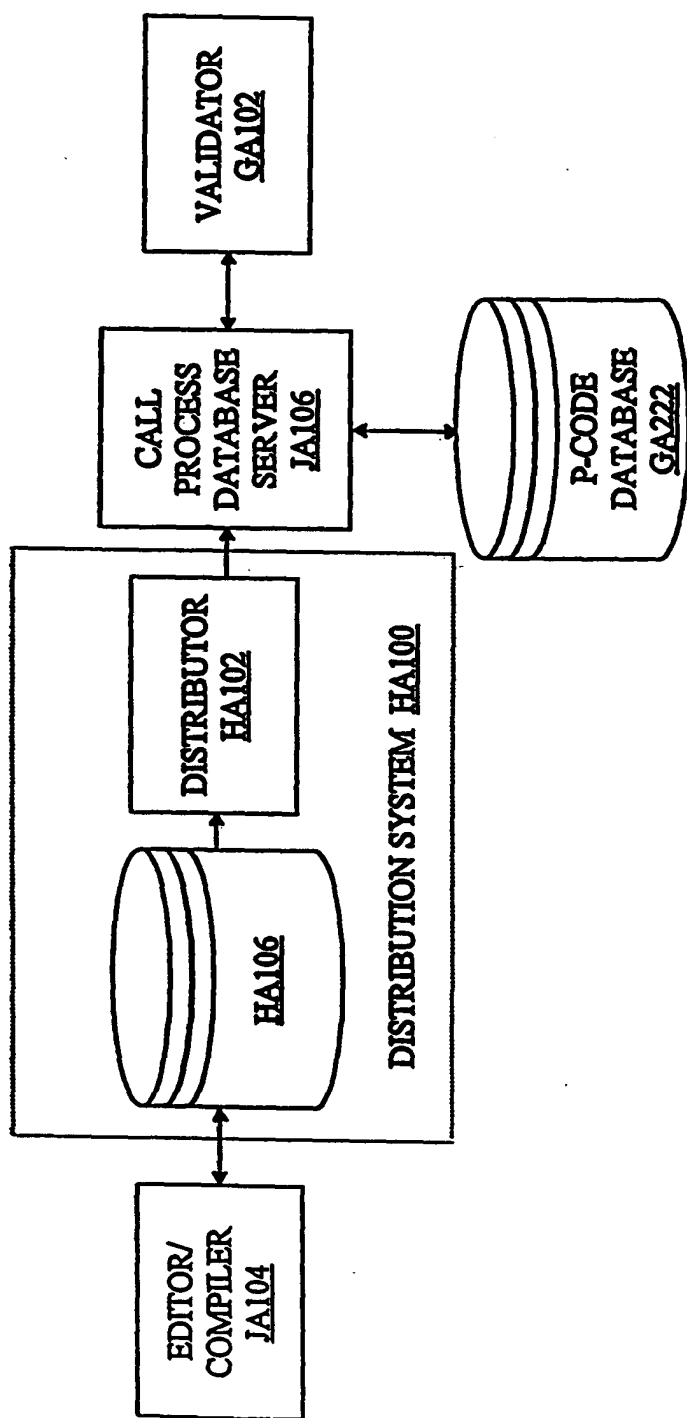


FIG 103



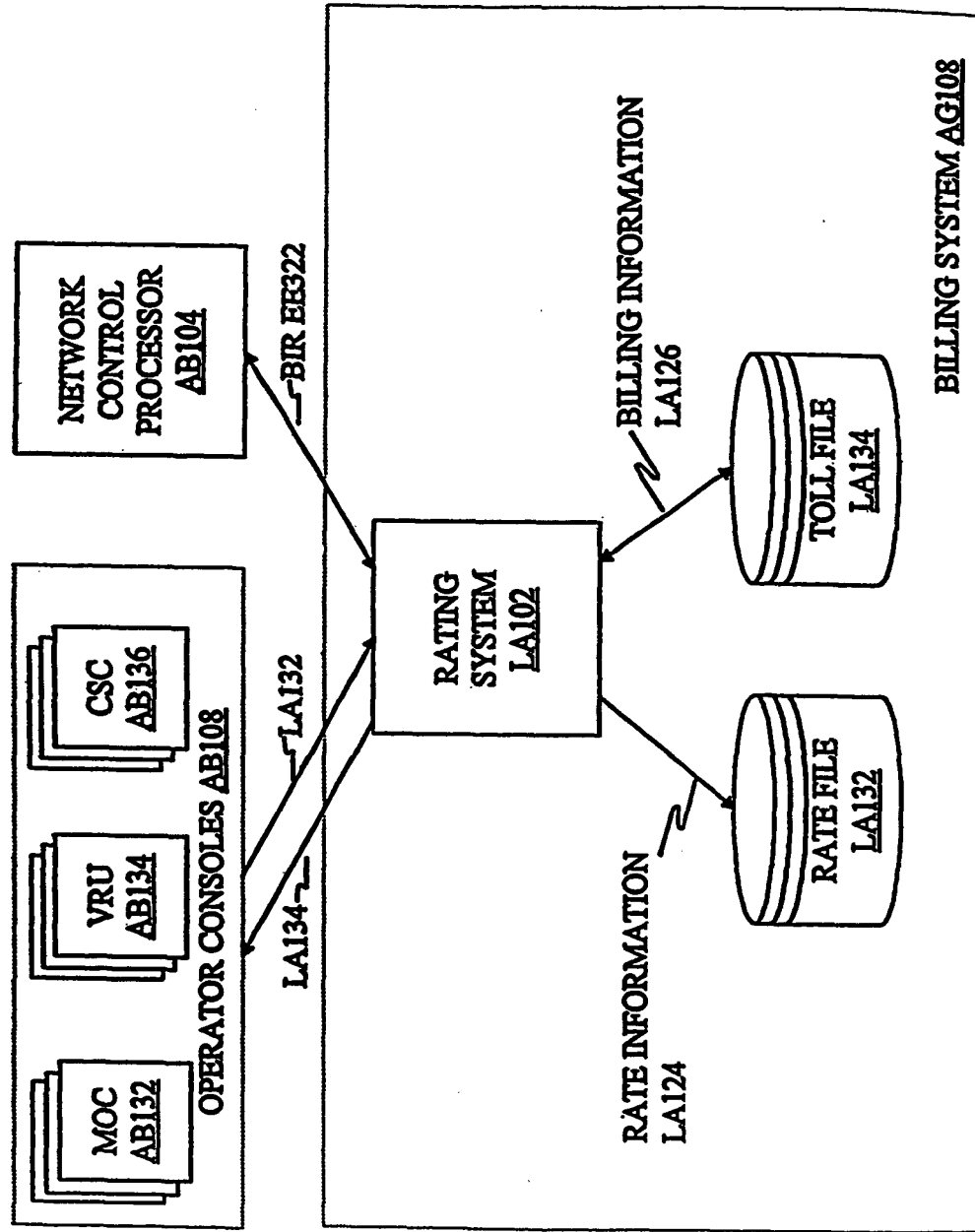


FIG 104

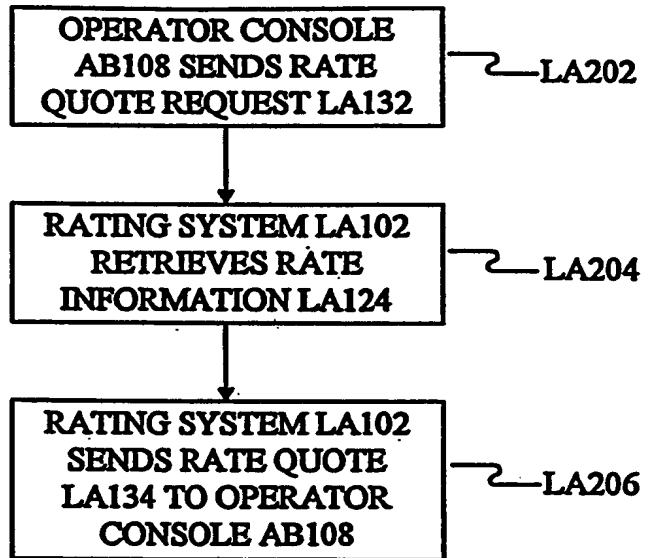


FIG 105

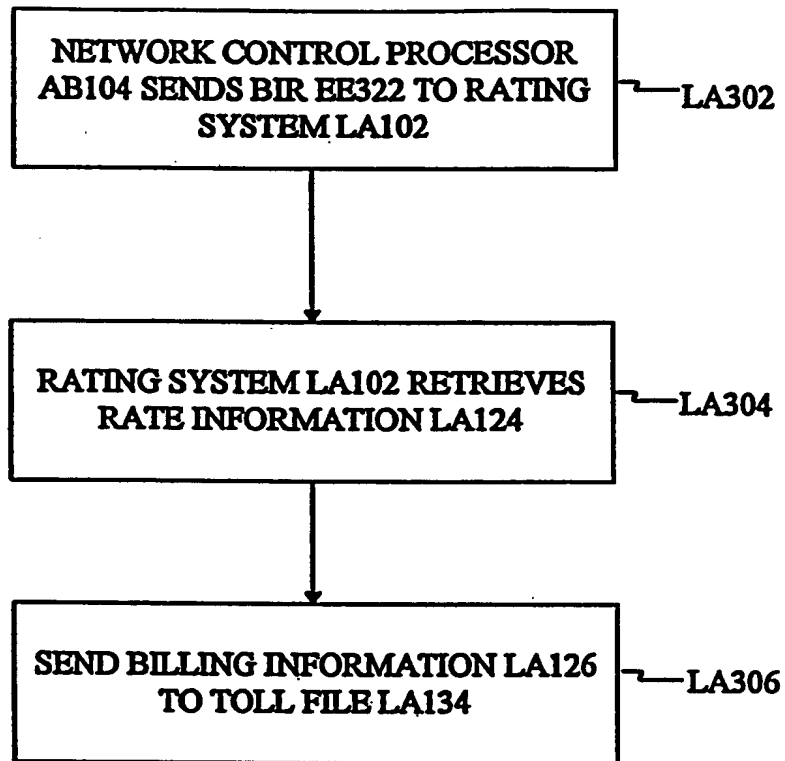


FIG 106

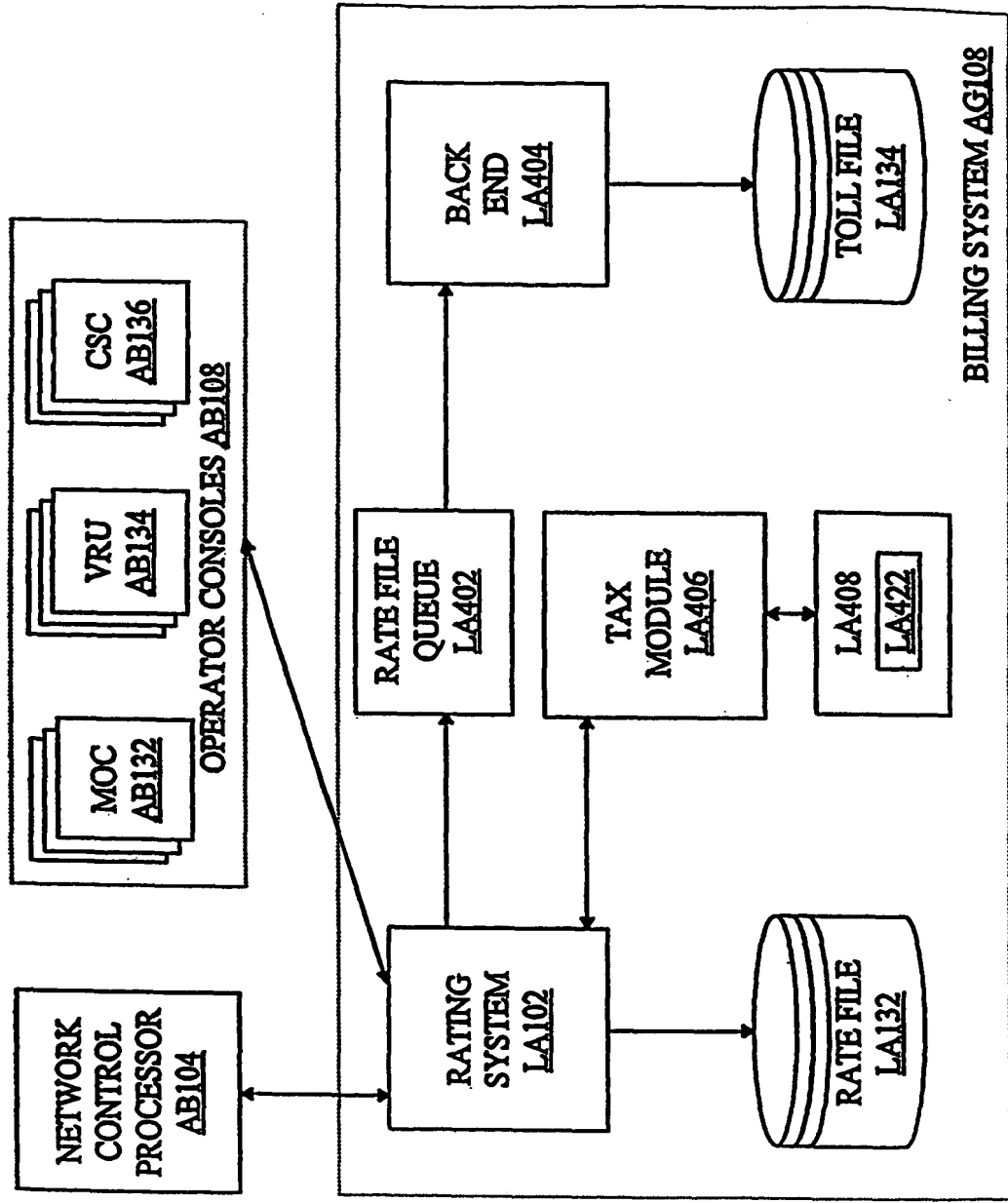


FIG 107

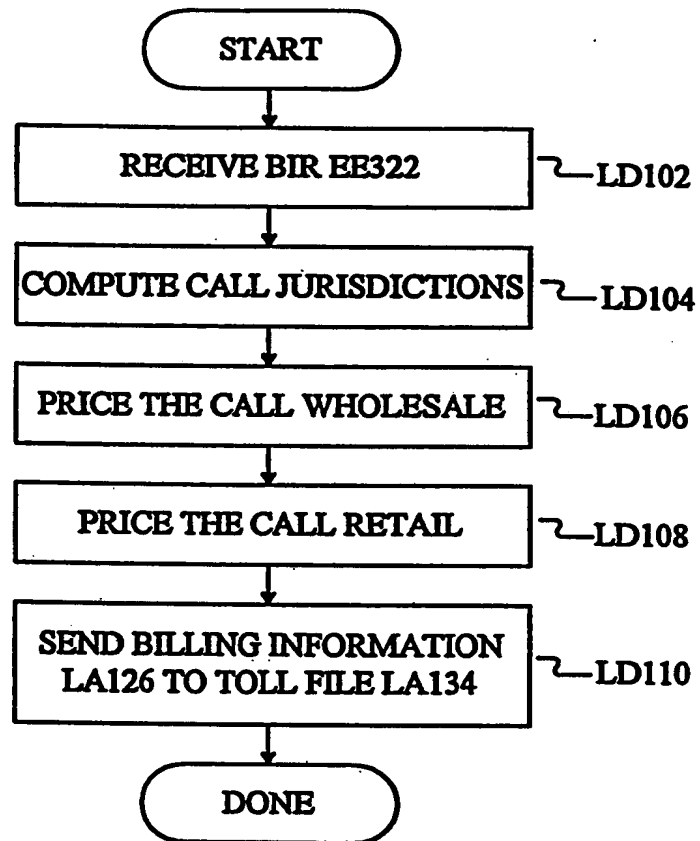


FIG 108

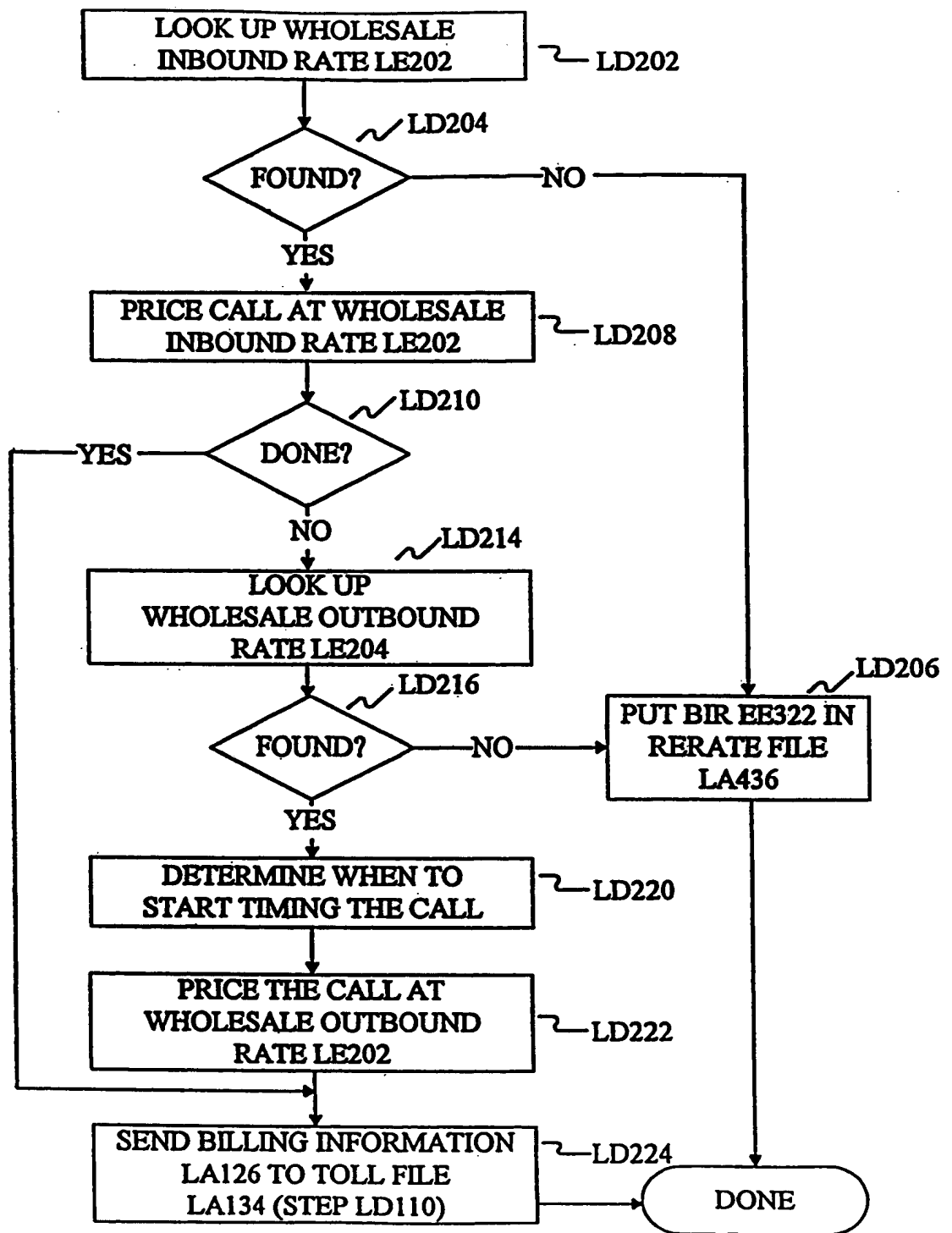


FIG 109

<b>WHOLESALE INBOUND RATE LE202</b>
<b>WHOLESALE OUTBOUND RATE LE204</b>
<b>RETAIL RATE LE206</b>
<b>TAX RATE LE208</b>

**RATE FILE LA132** 

**FIG 110**

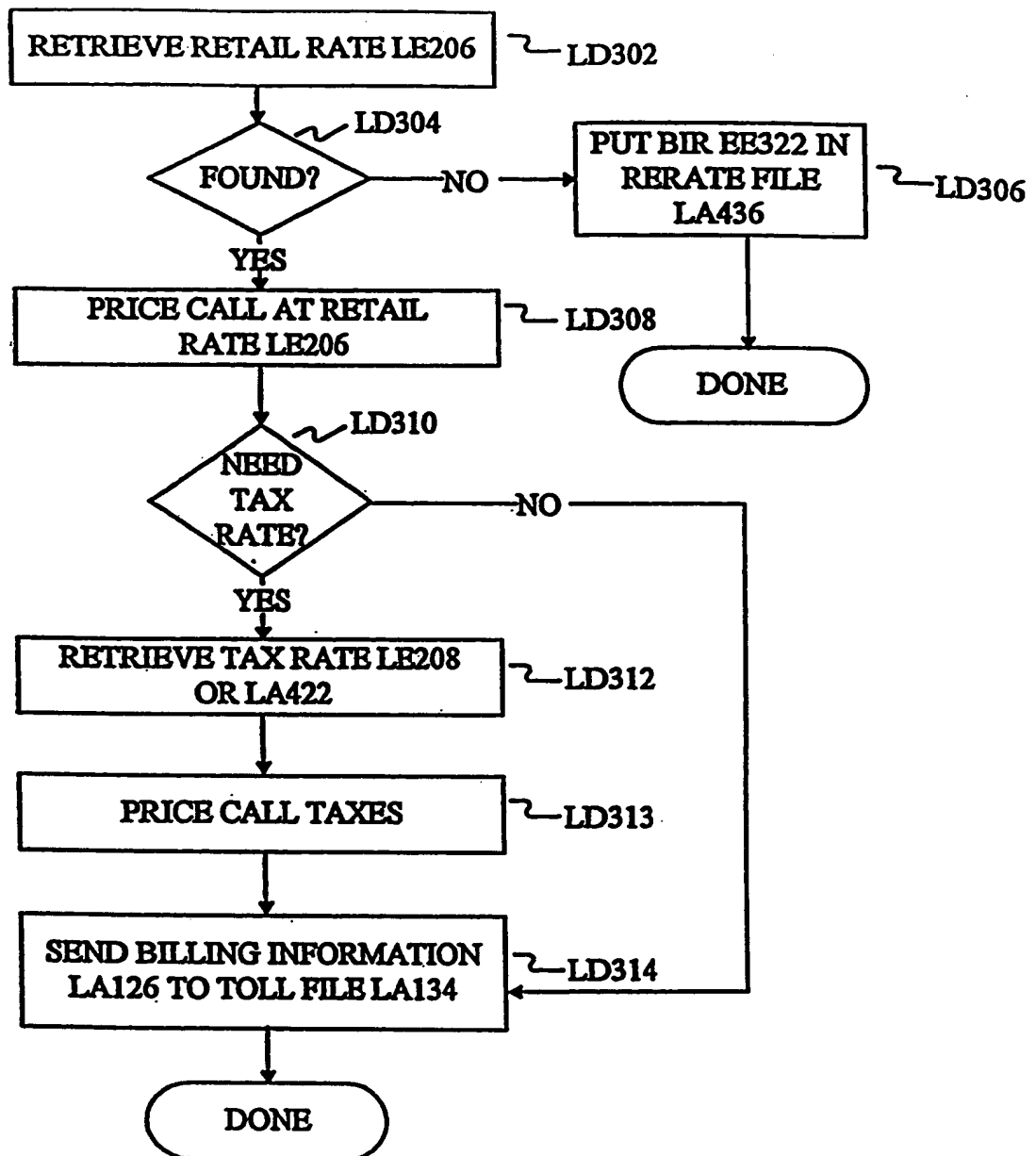


FIG 111



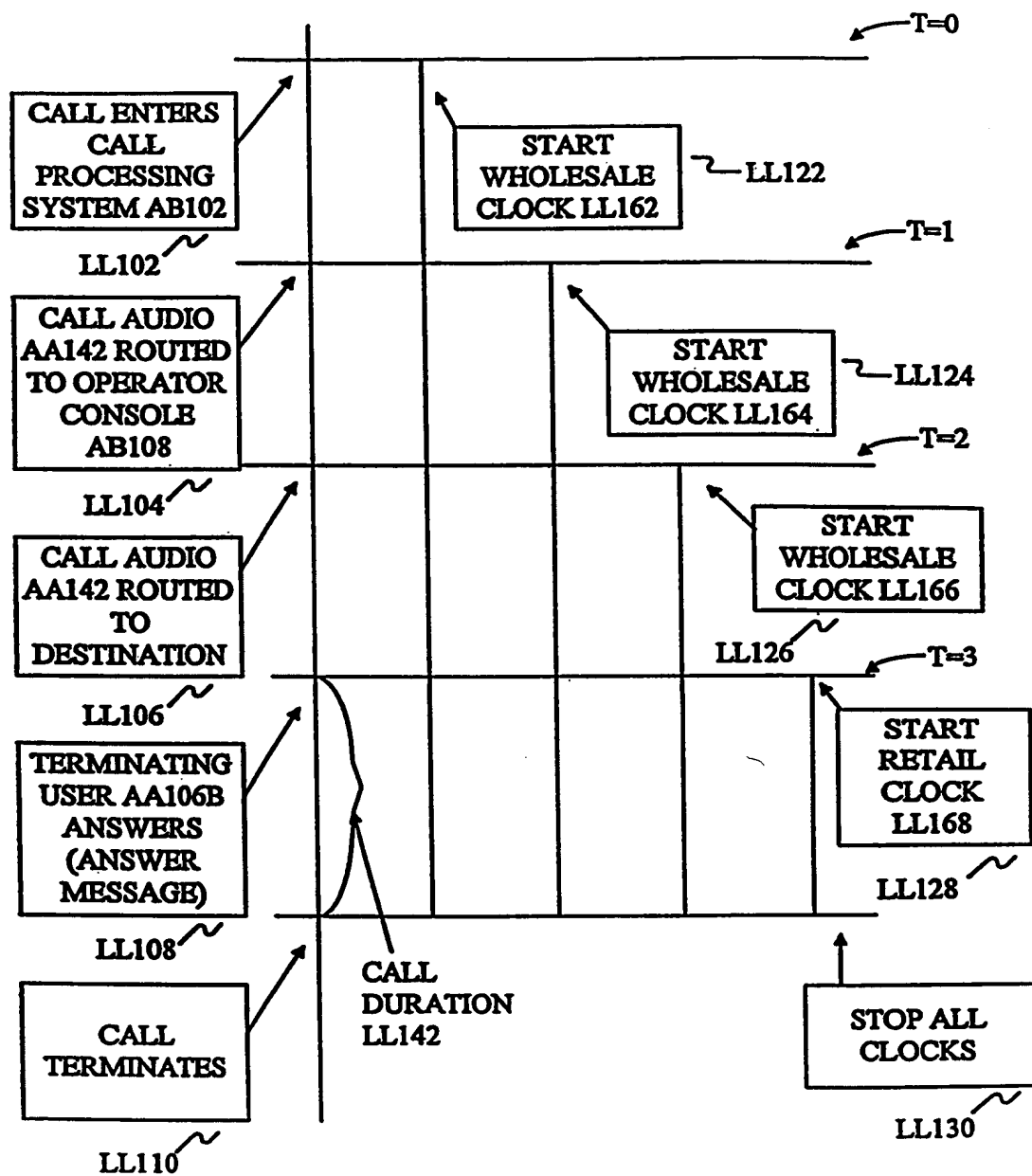


FIG 112

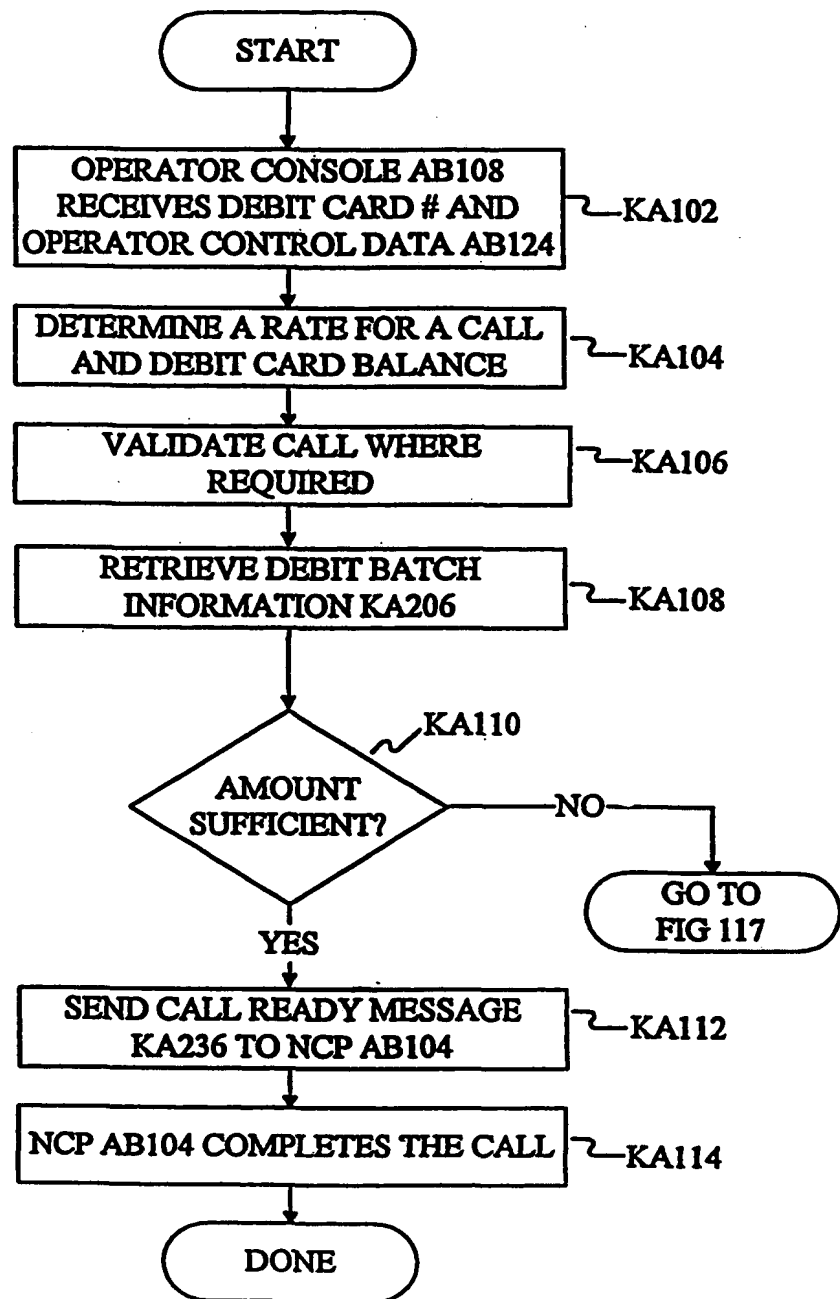


FIG 113

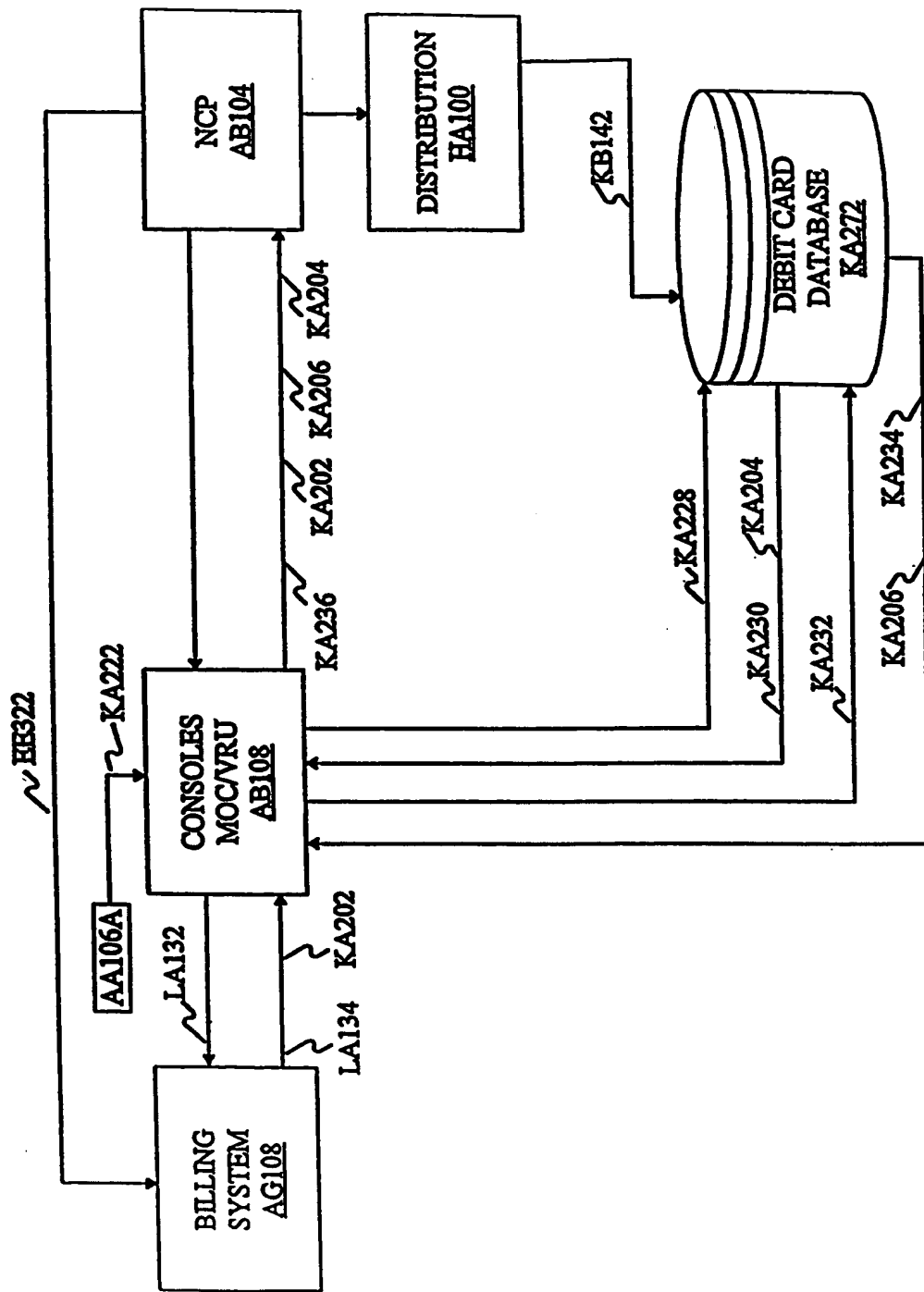


FIG 114

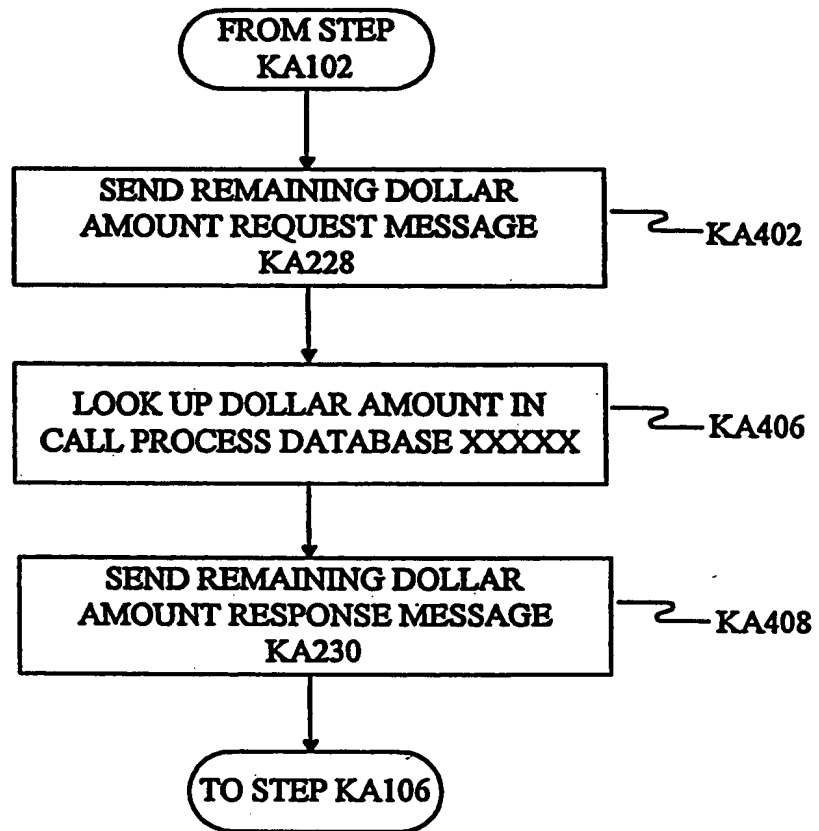


FIG 115

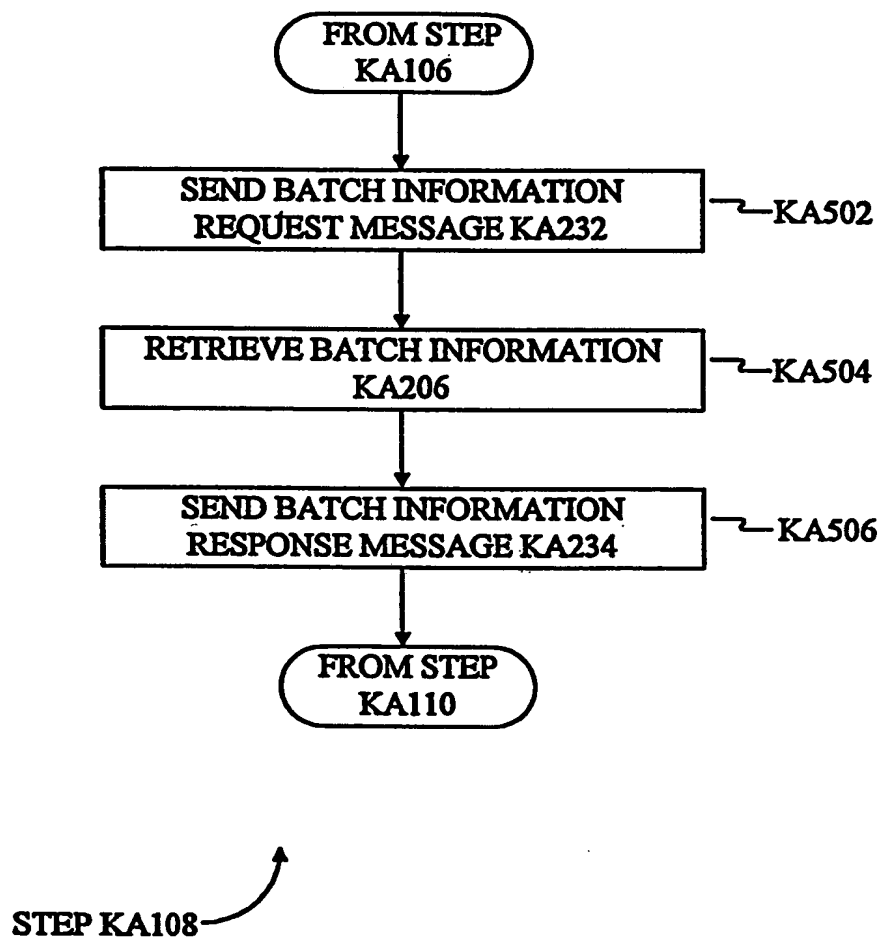


FIG 116

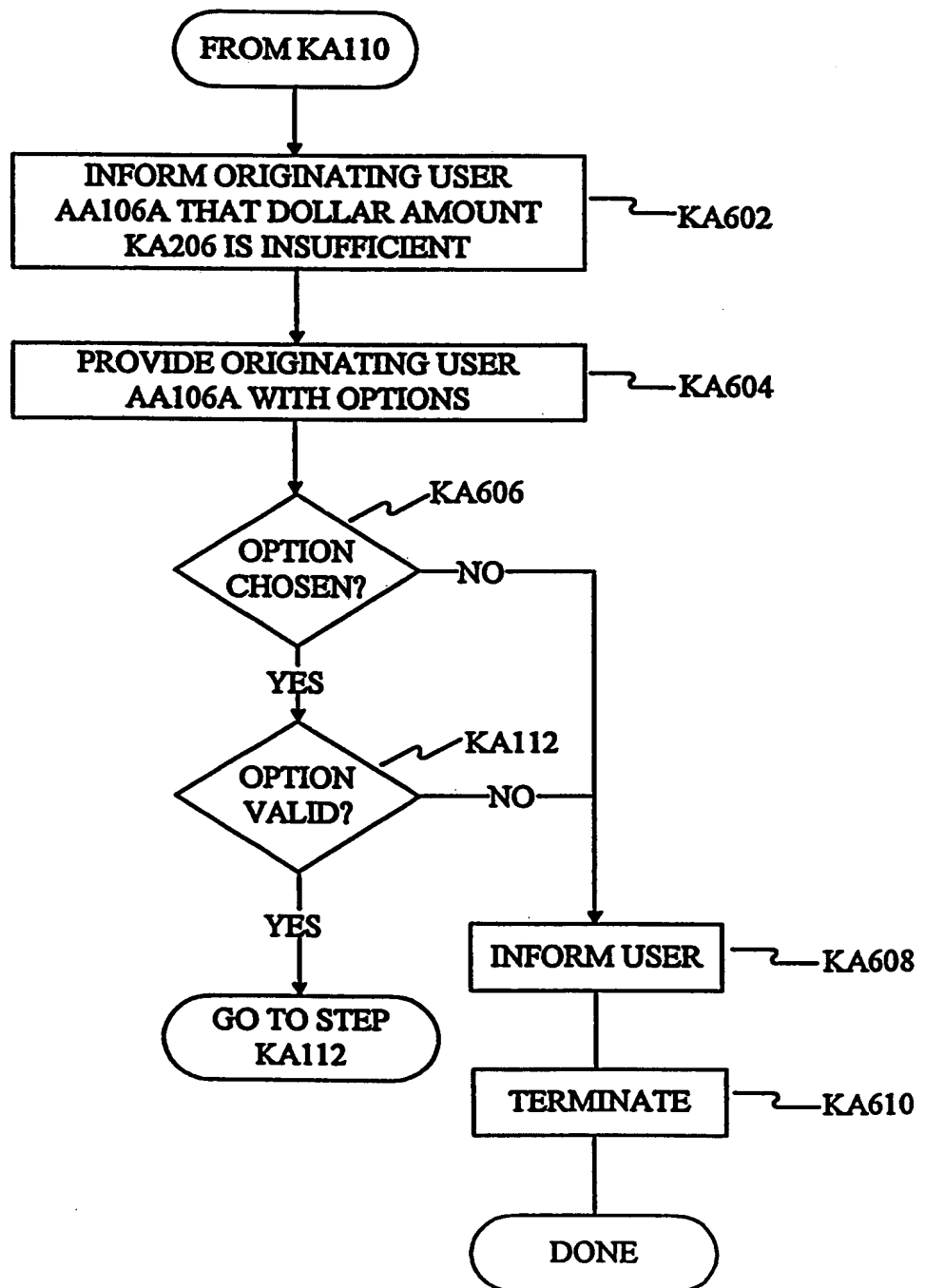


FIG 117

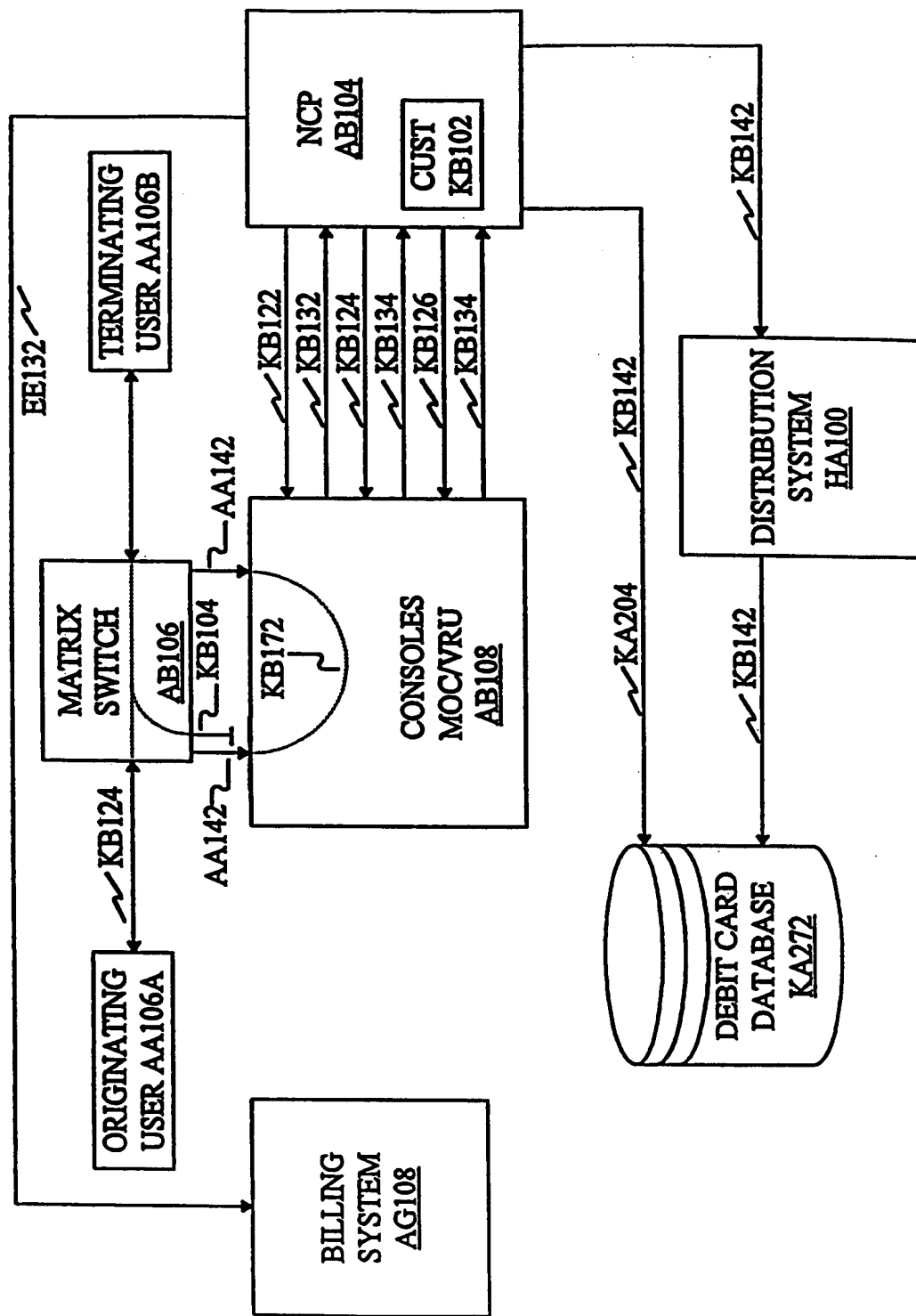


FIG 118



**FIG 120**

**FIG 121**

**FIG 119**



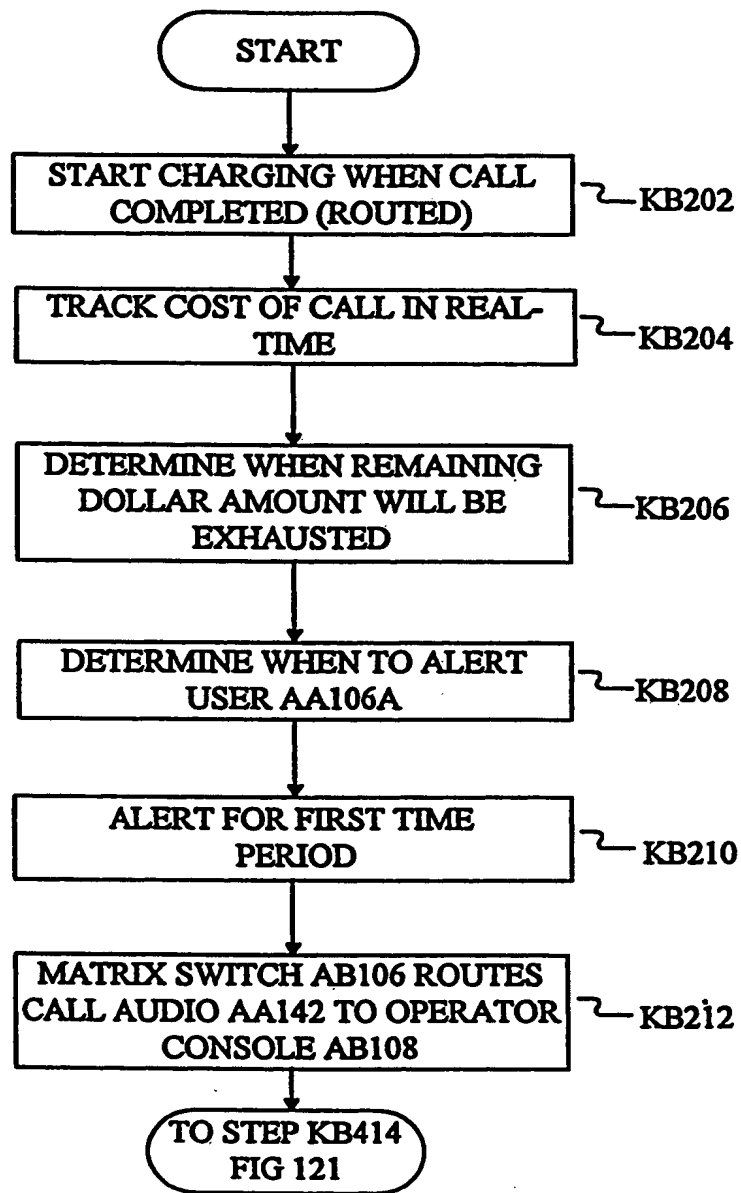


FIG 120

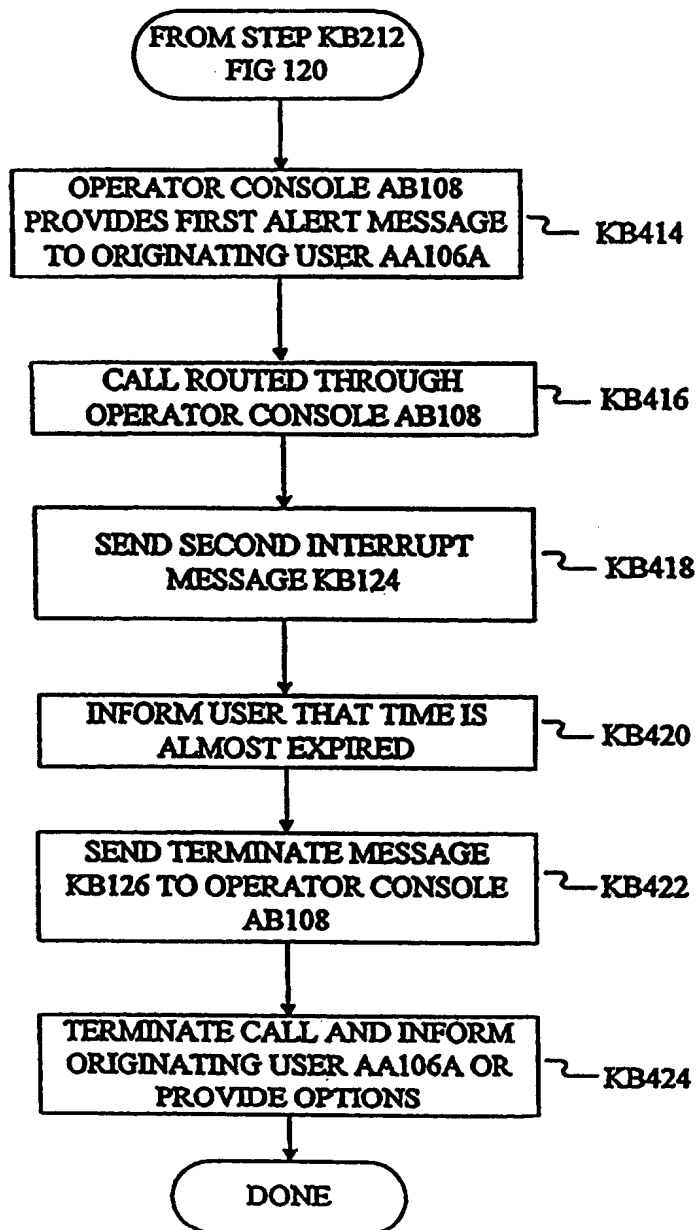


FIG 121

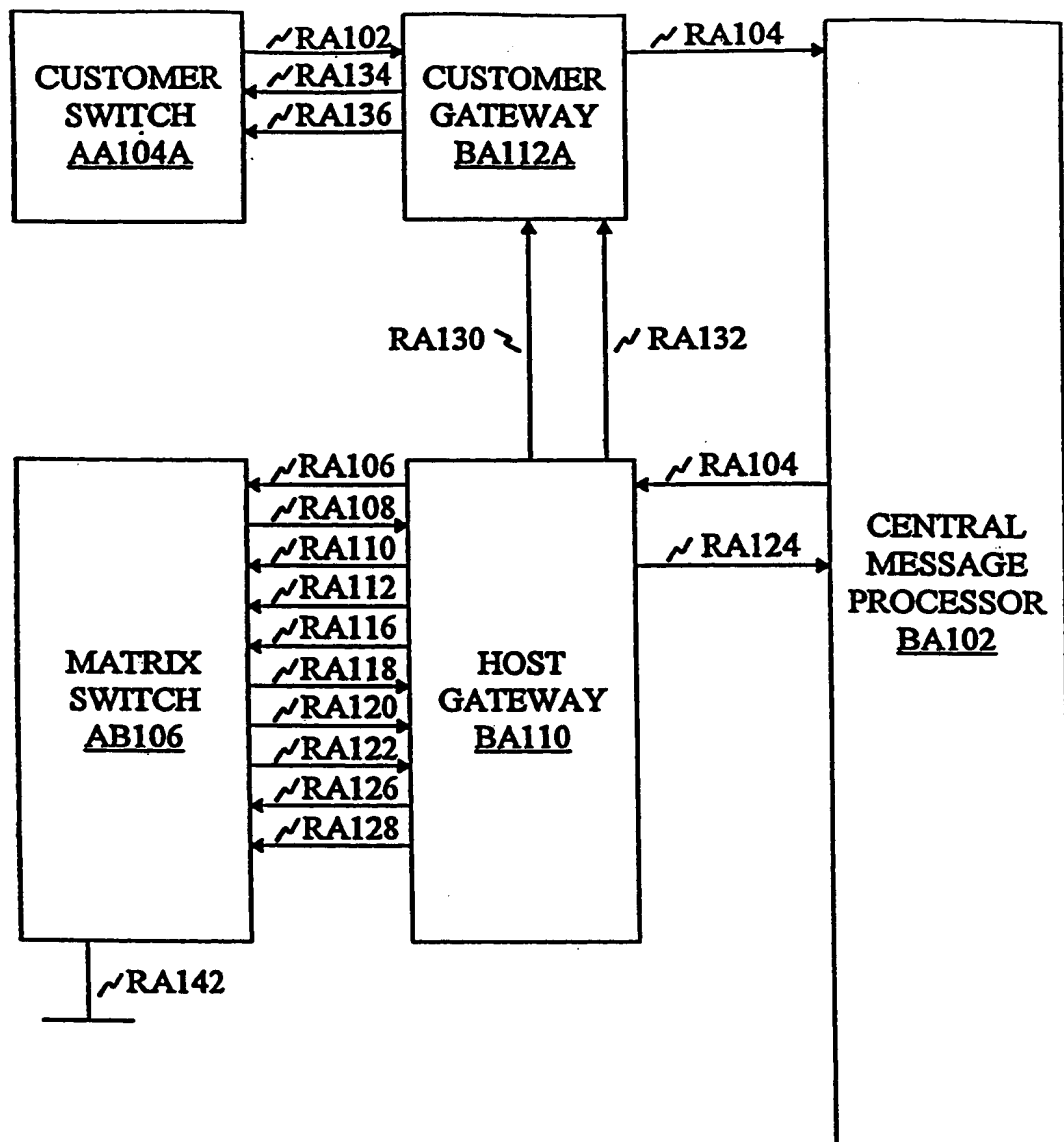


FIG 122

<b>FIG 124</b>	<b>FIG 125</b>
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**FIG 123**

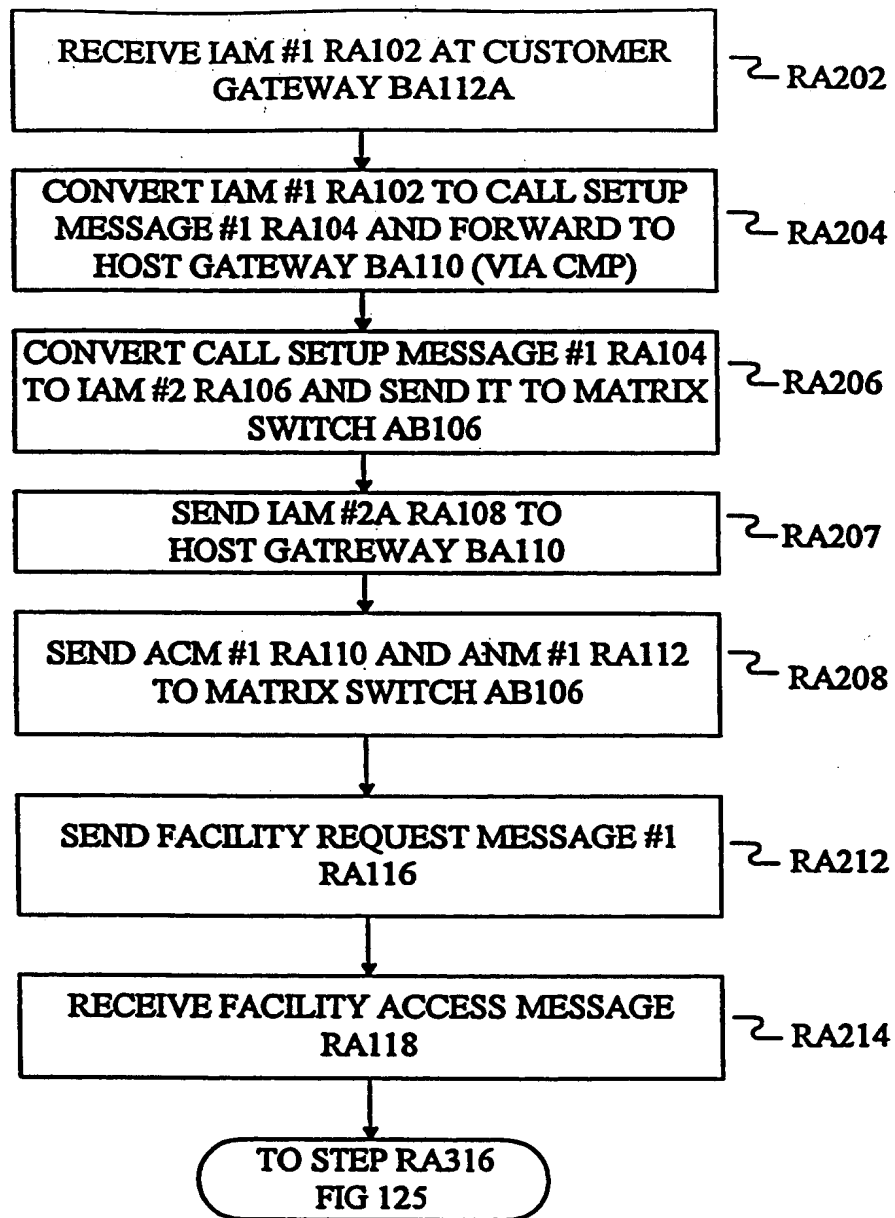


FIG 124

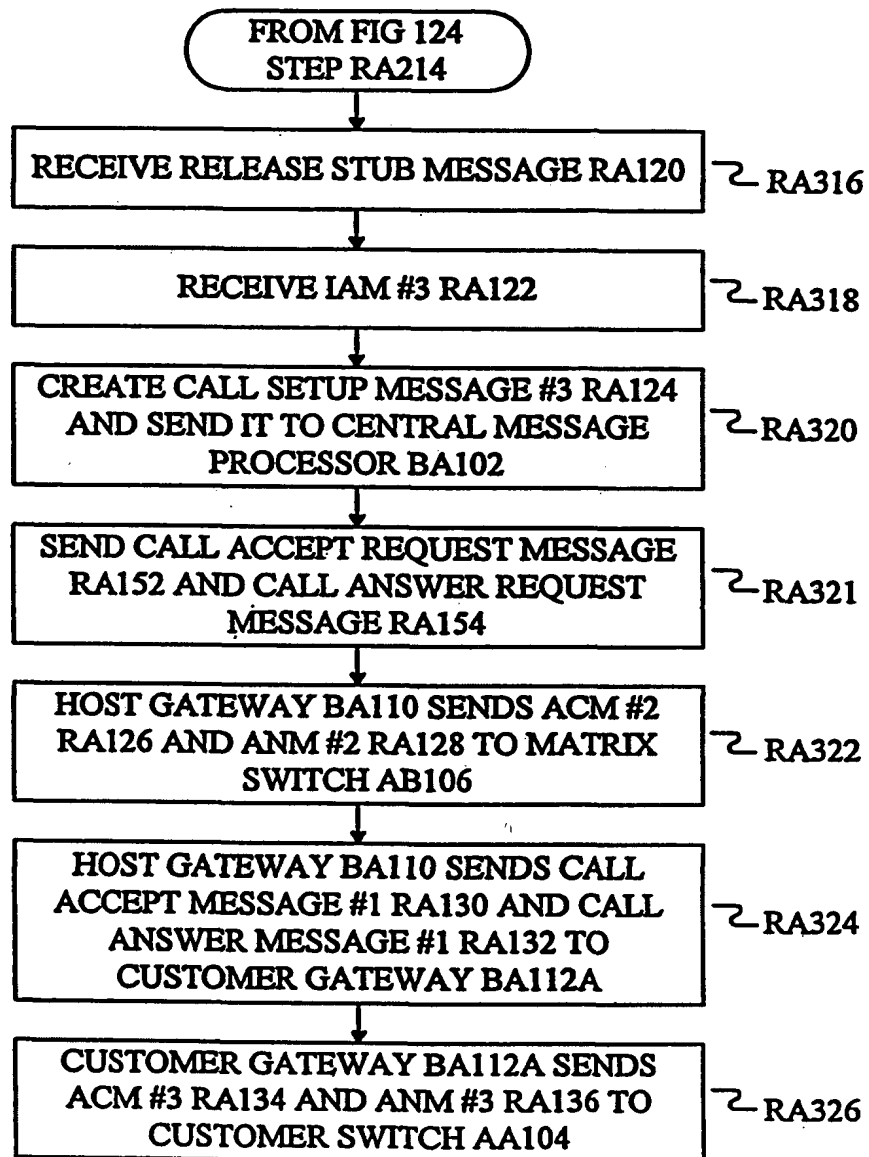


FIG 125

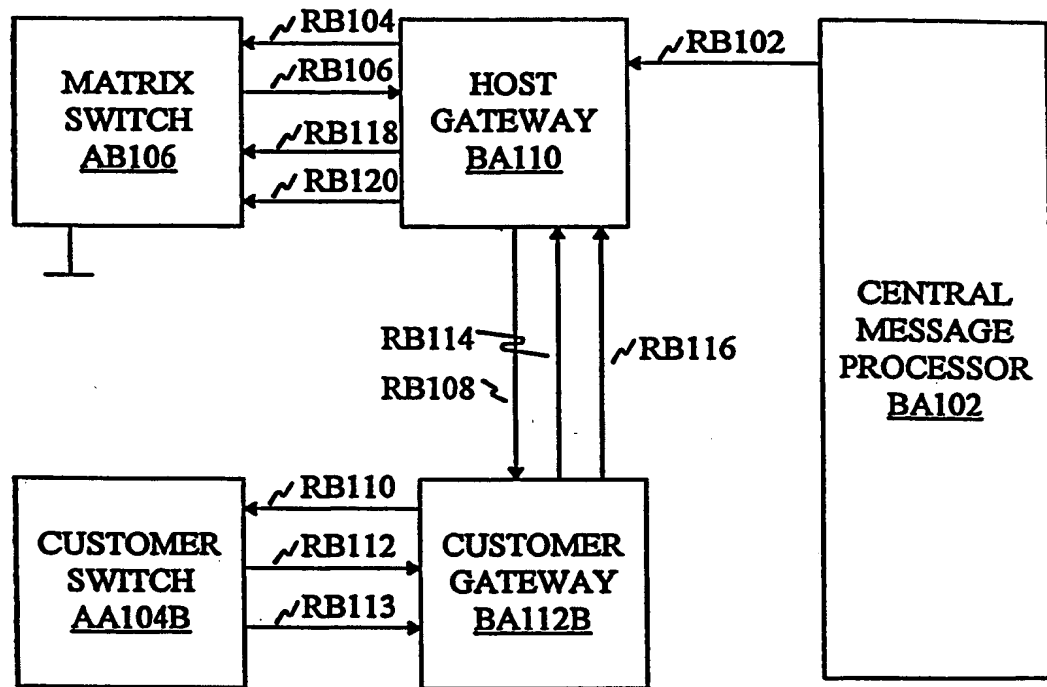


FIG 126

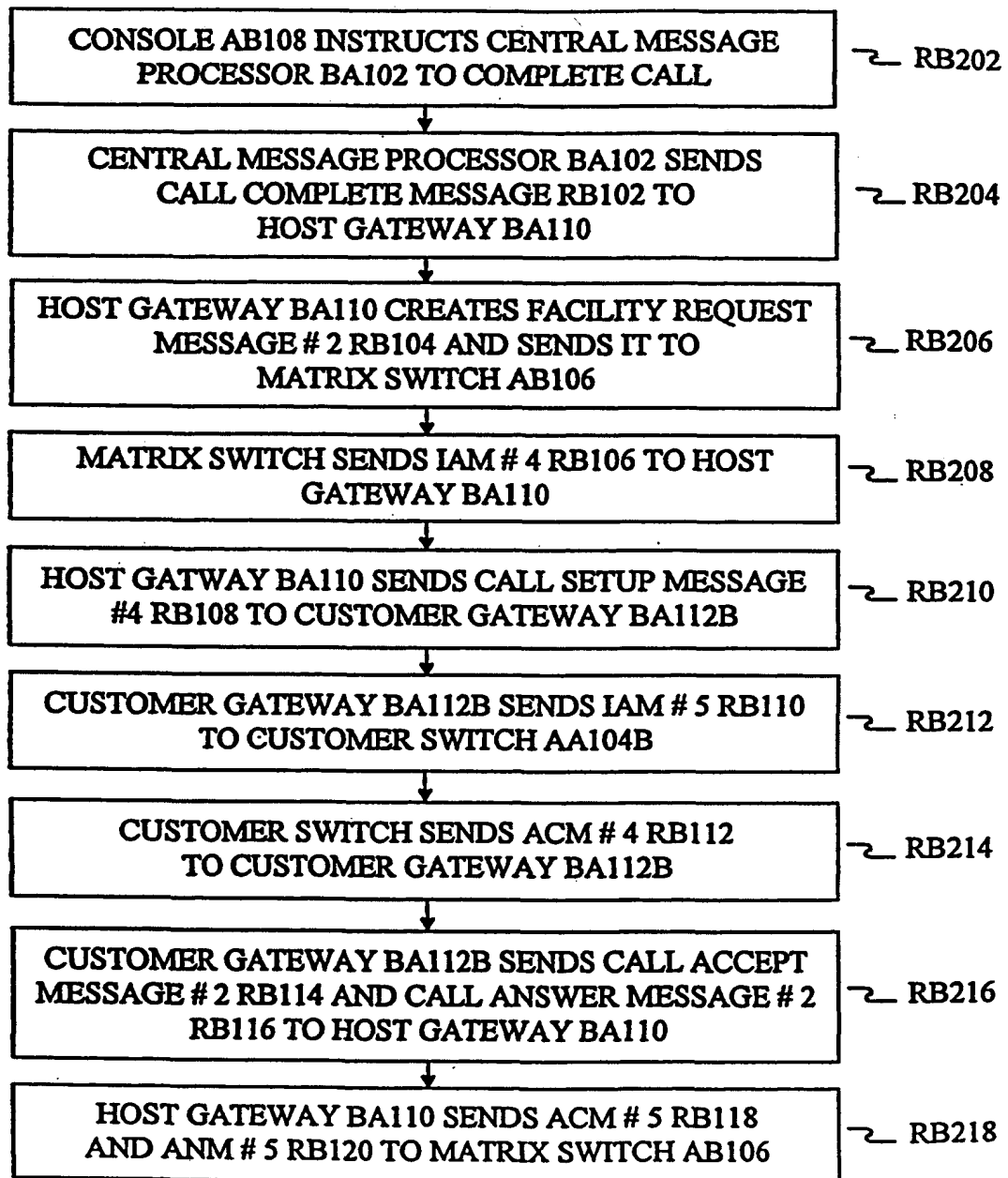


FIG 127



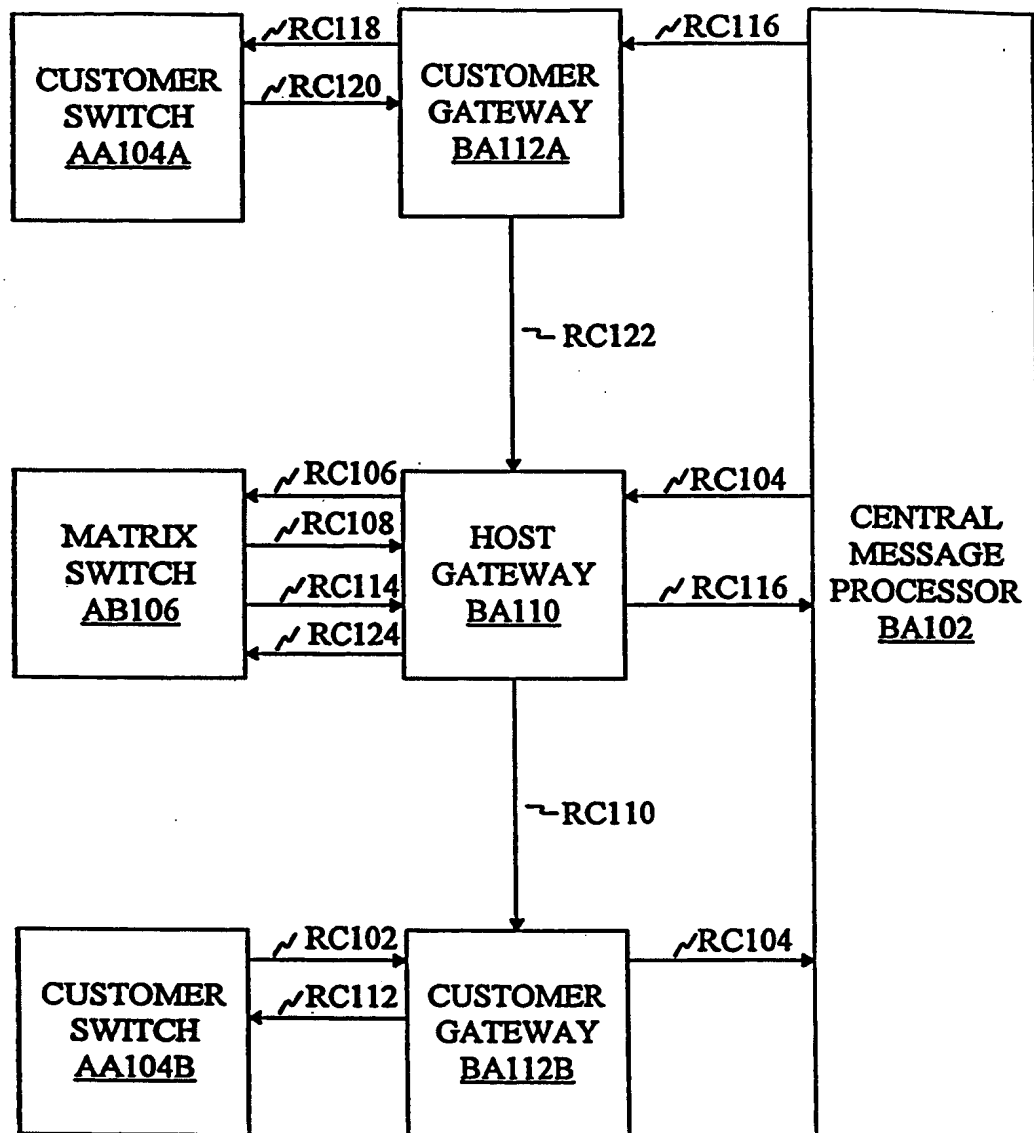


FIG 128

FIG 130	FIG 131
---------	---------

FIG 129

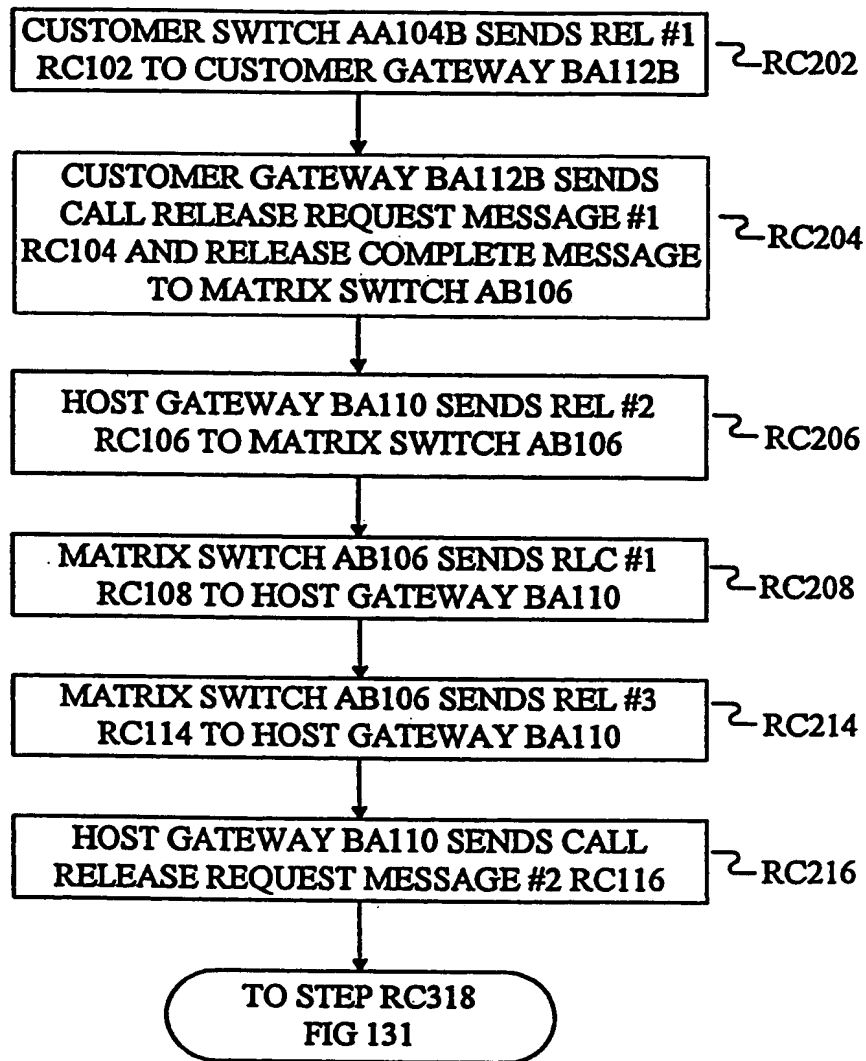


FIG 130

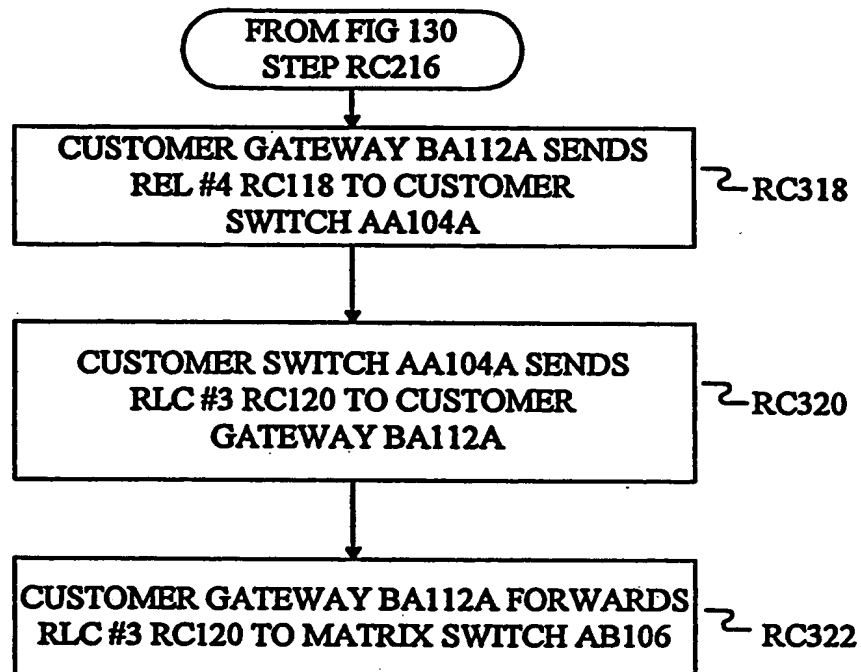


FIG 131

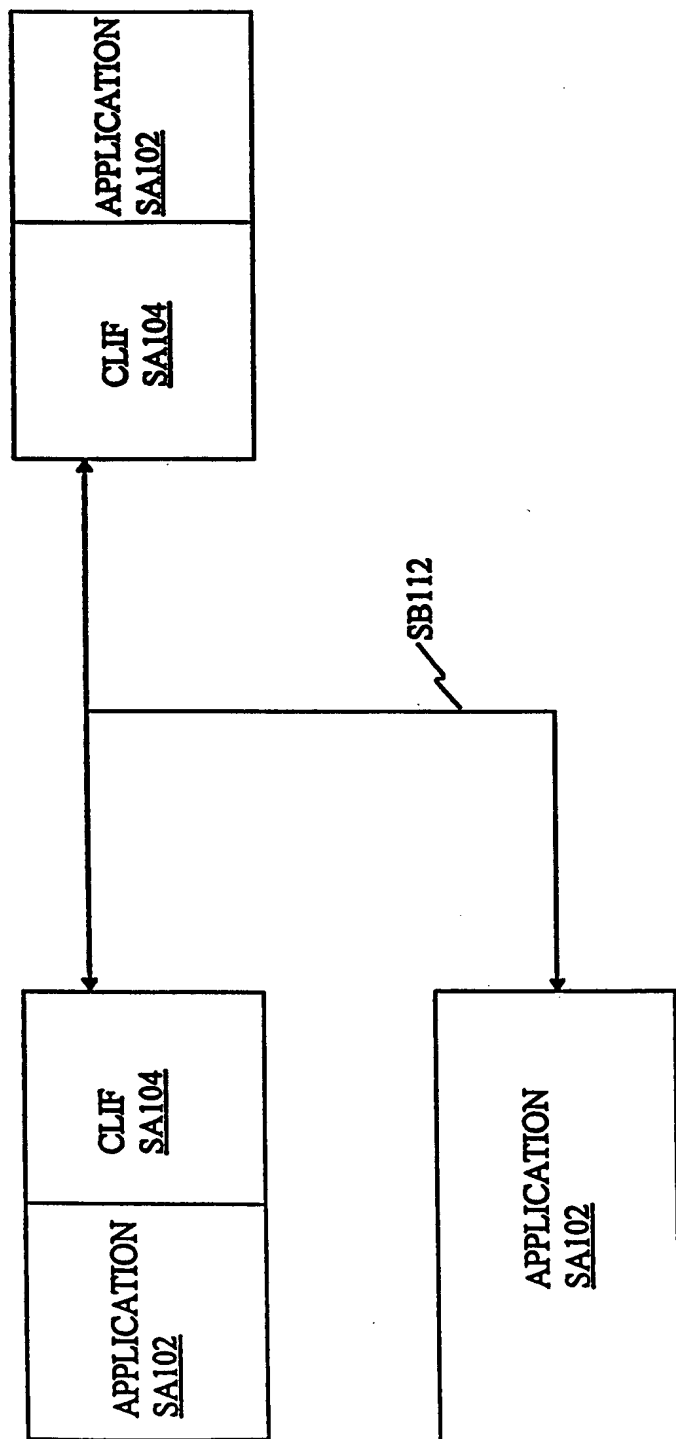


FIG 132

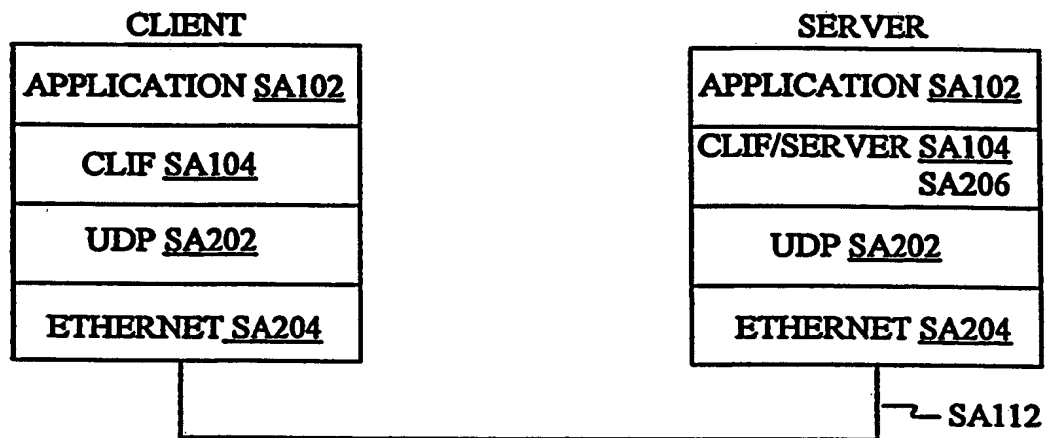


FIG 133

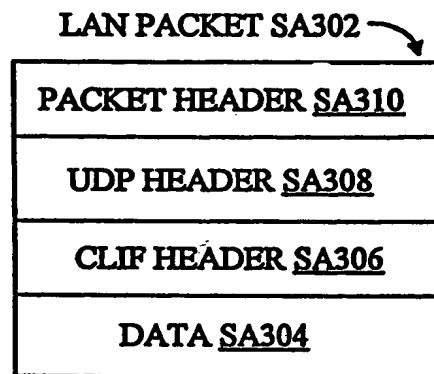


FIG 134

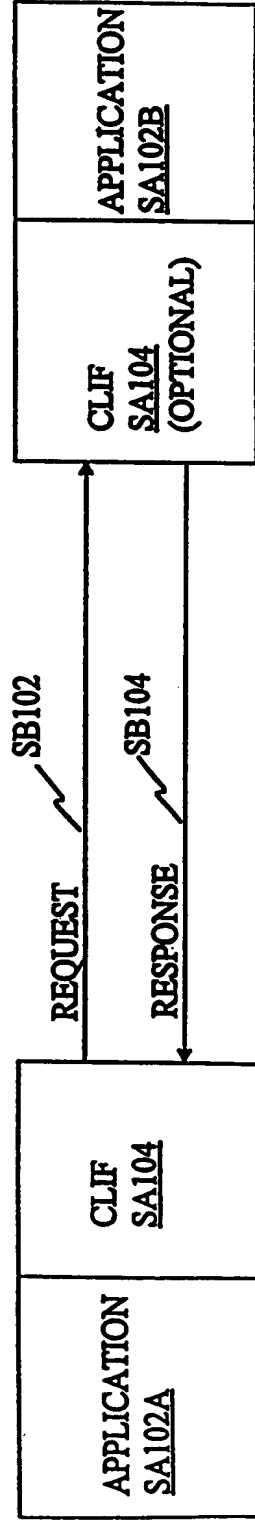


FIG 135



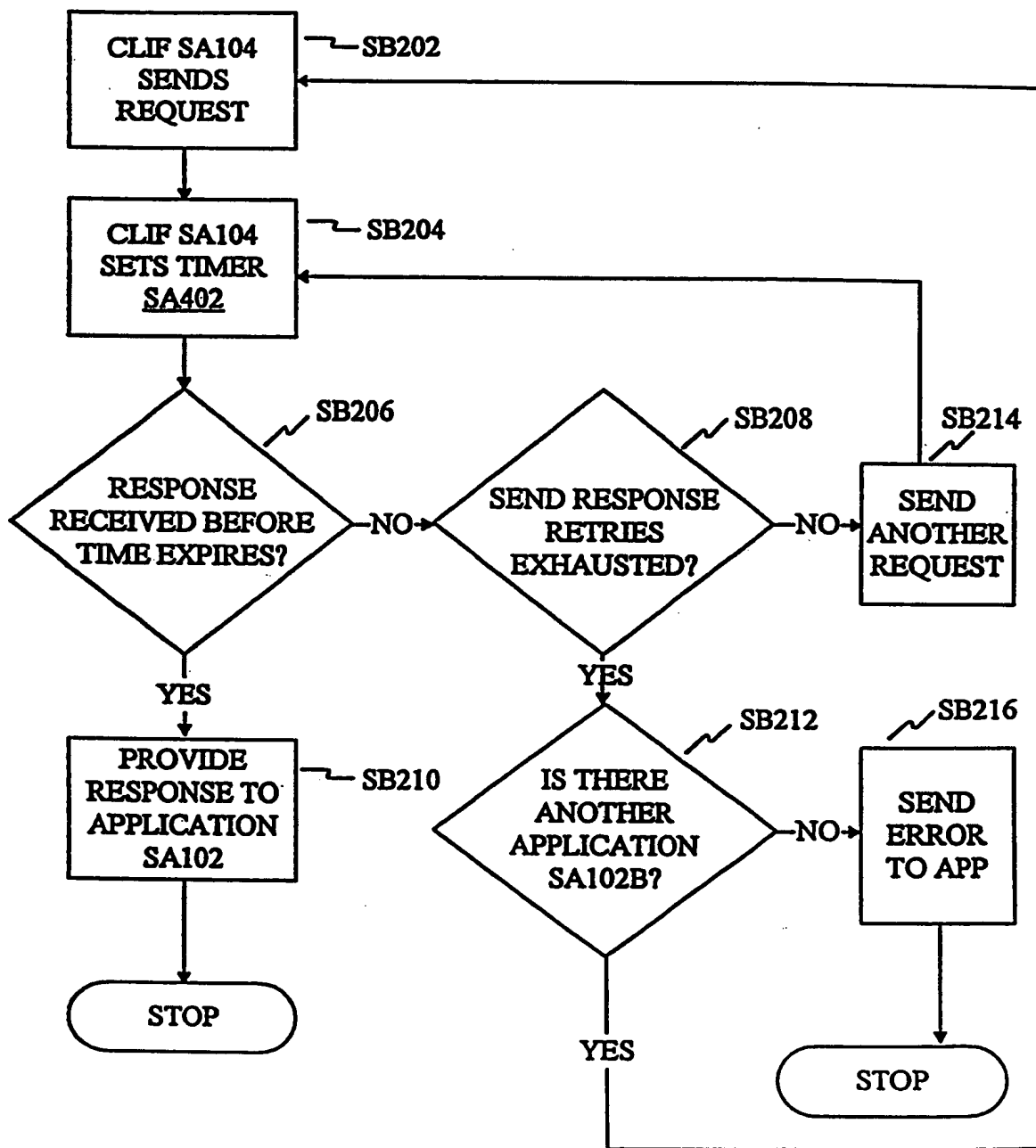


FIG 136

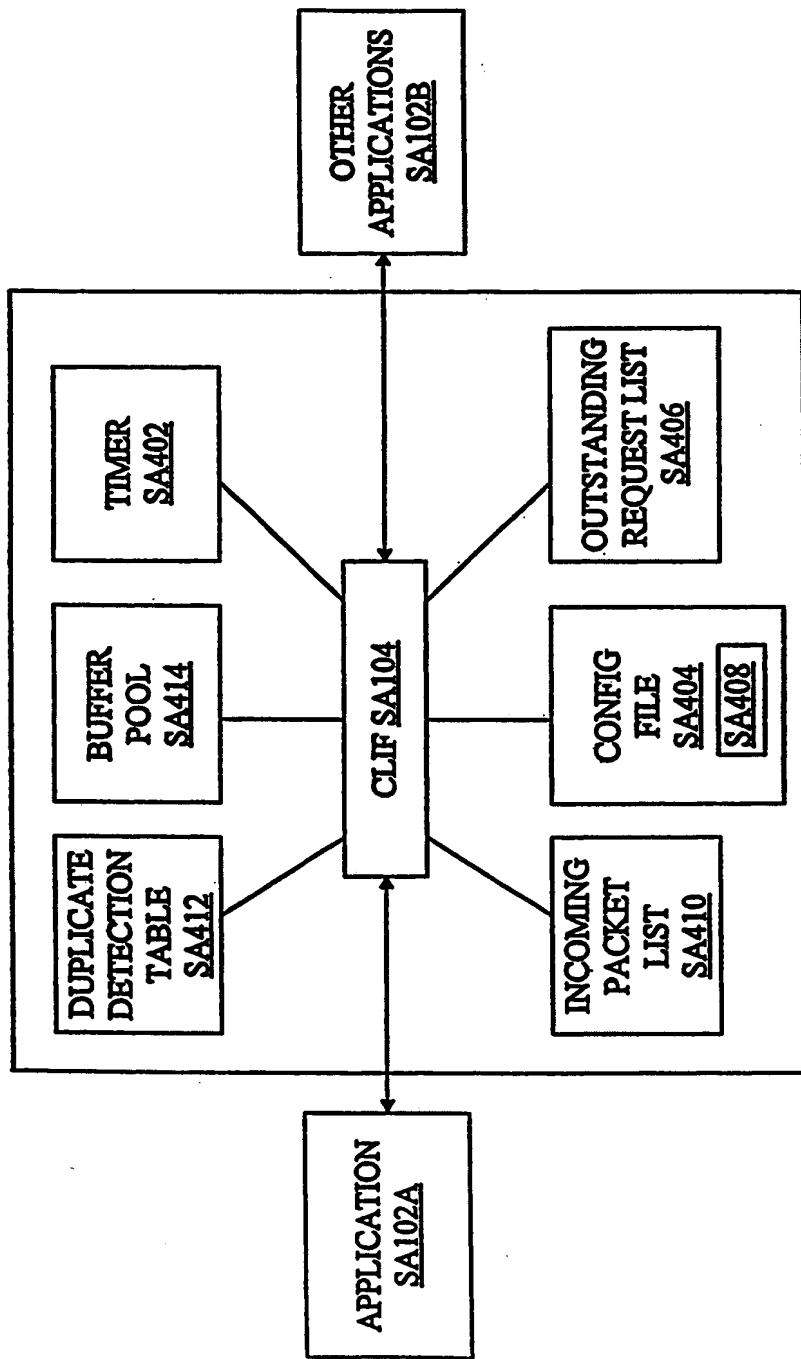


FIG 137

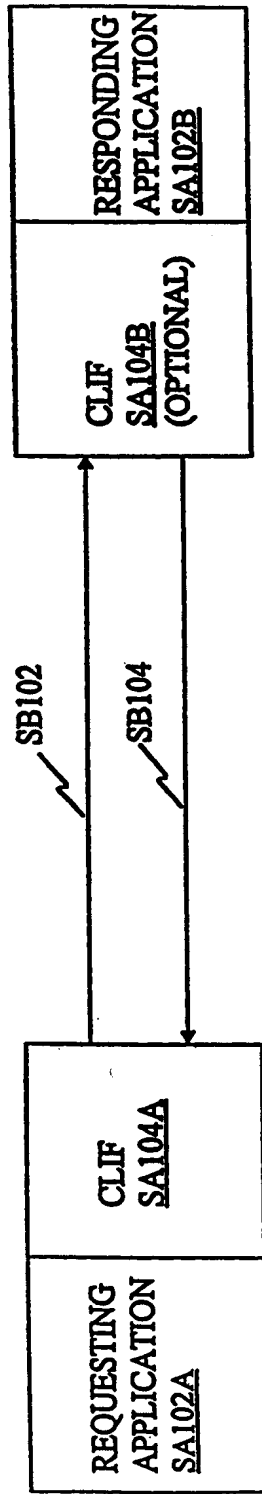


FIG 138

<b>FIG 140</b>	<b>FIG 141</b>
----------------	----------------

**FIG 139**

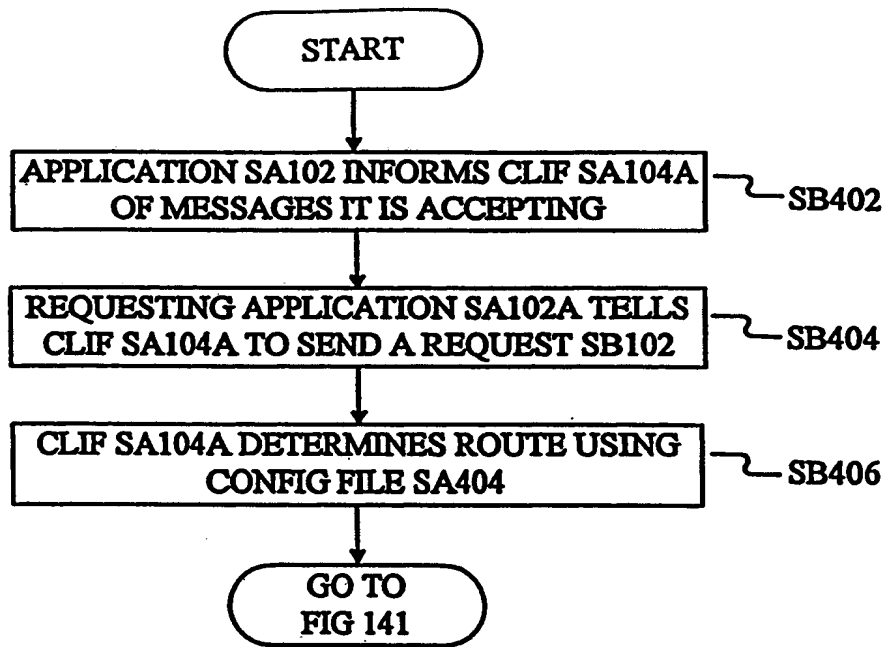


FIG 140

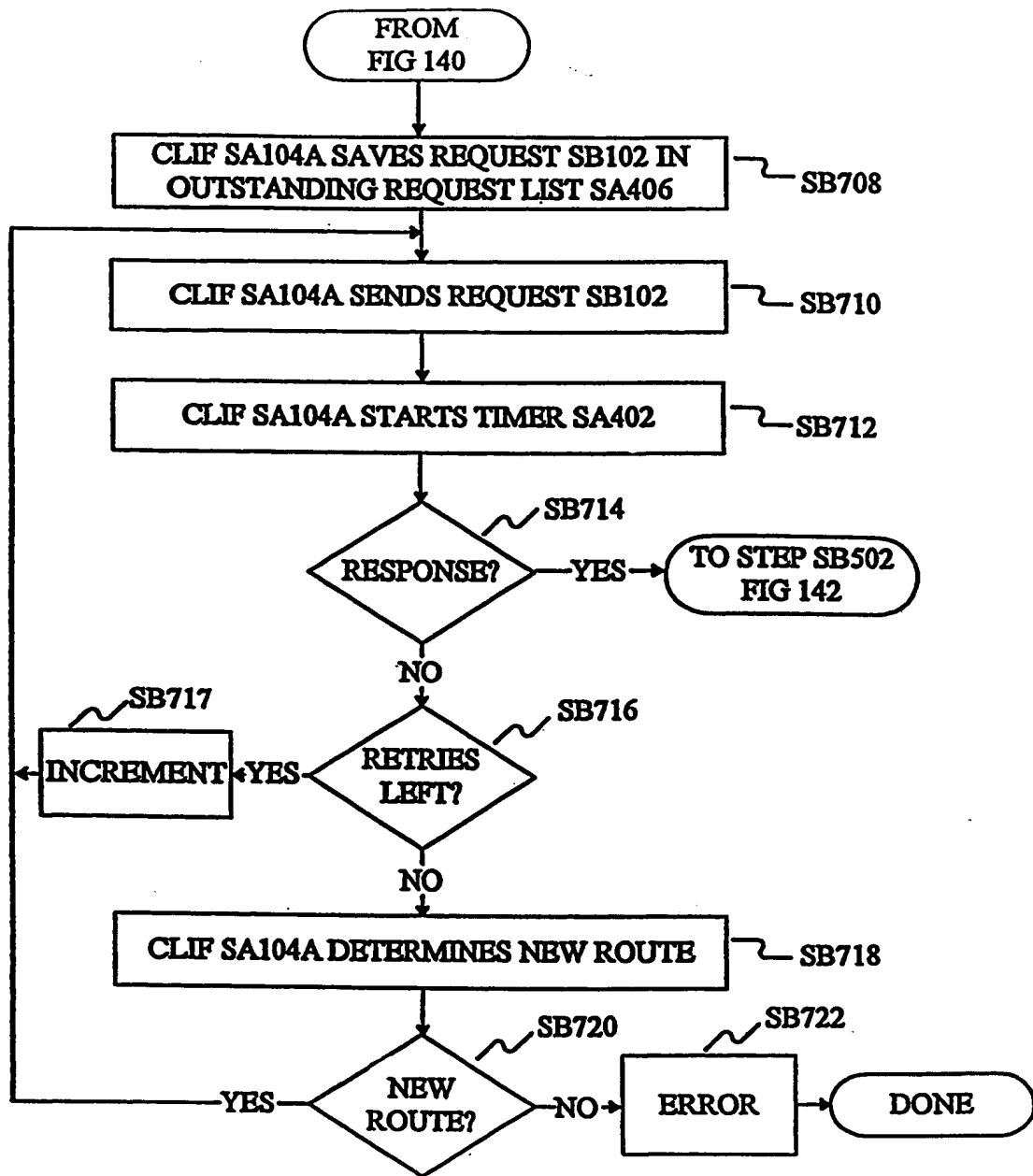


FIG 141

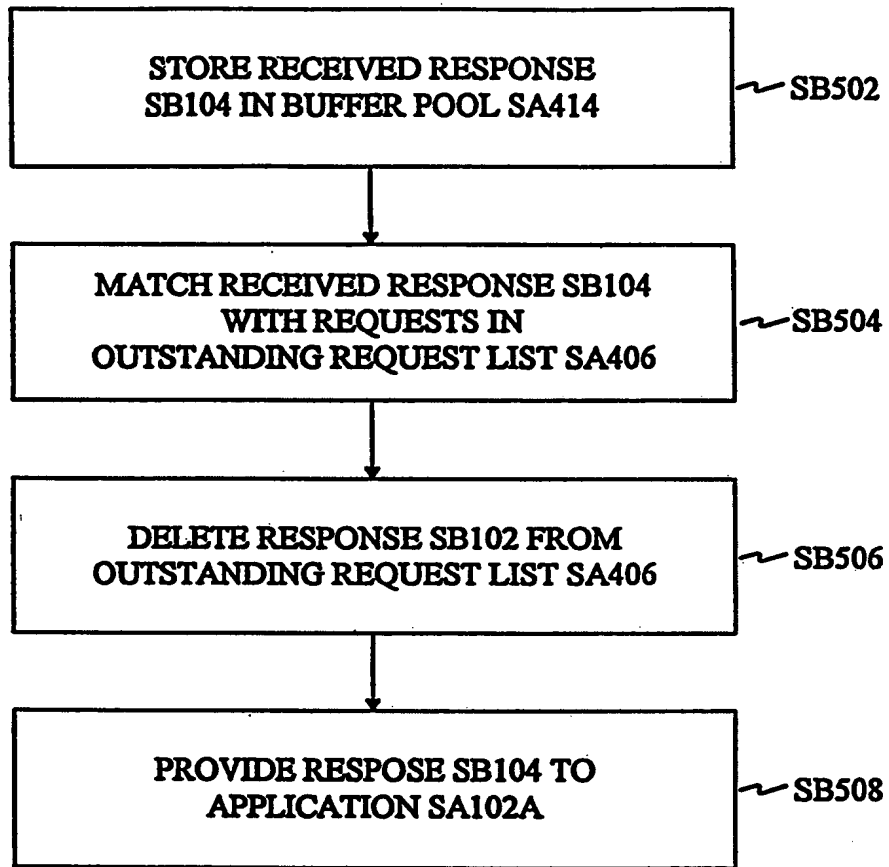


FIG 142

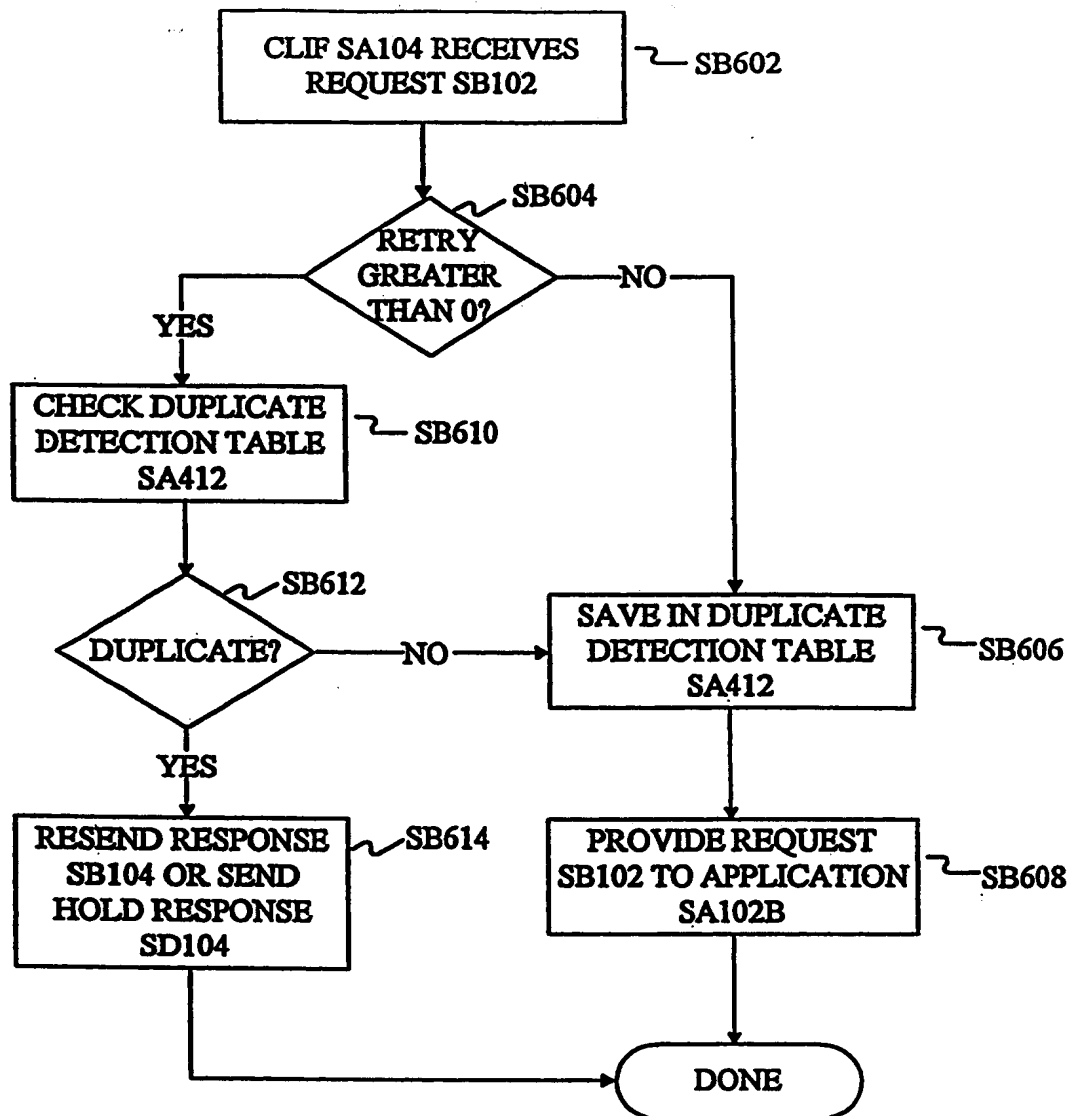


FIG 143



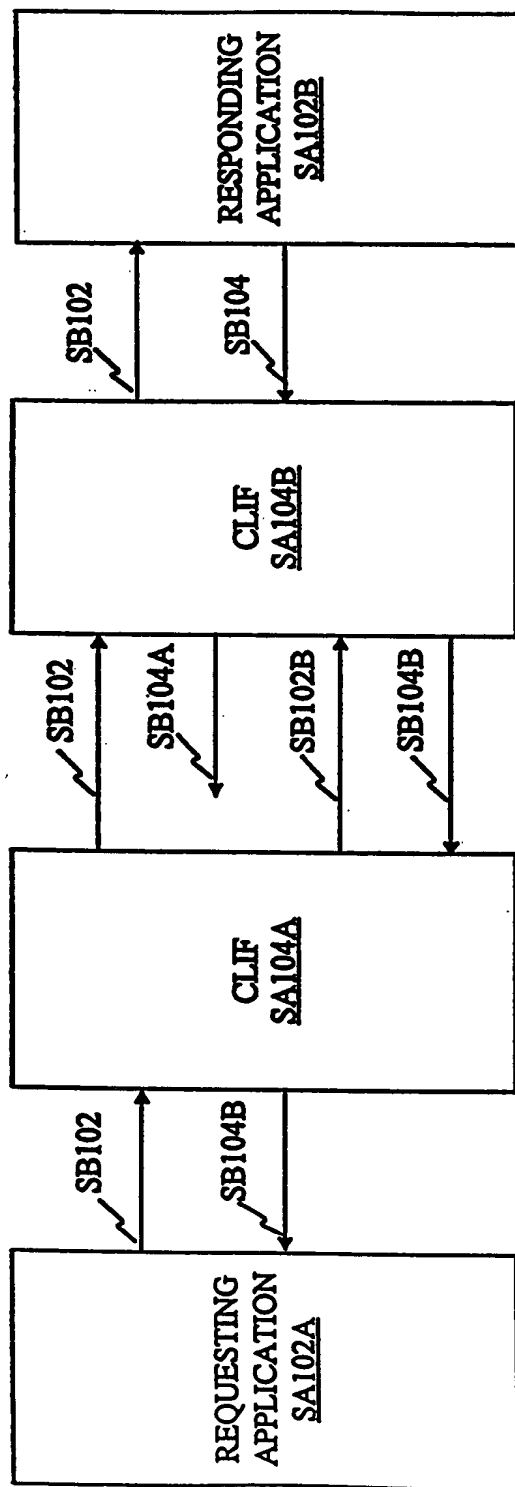


FIG 144

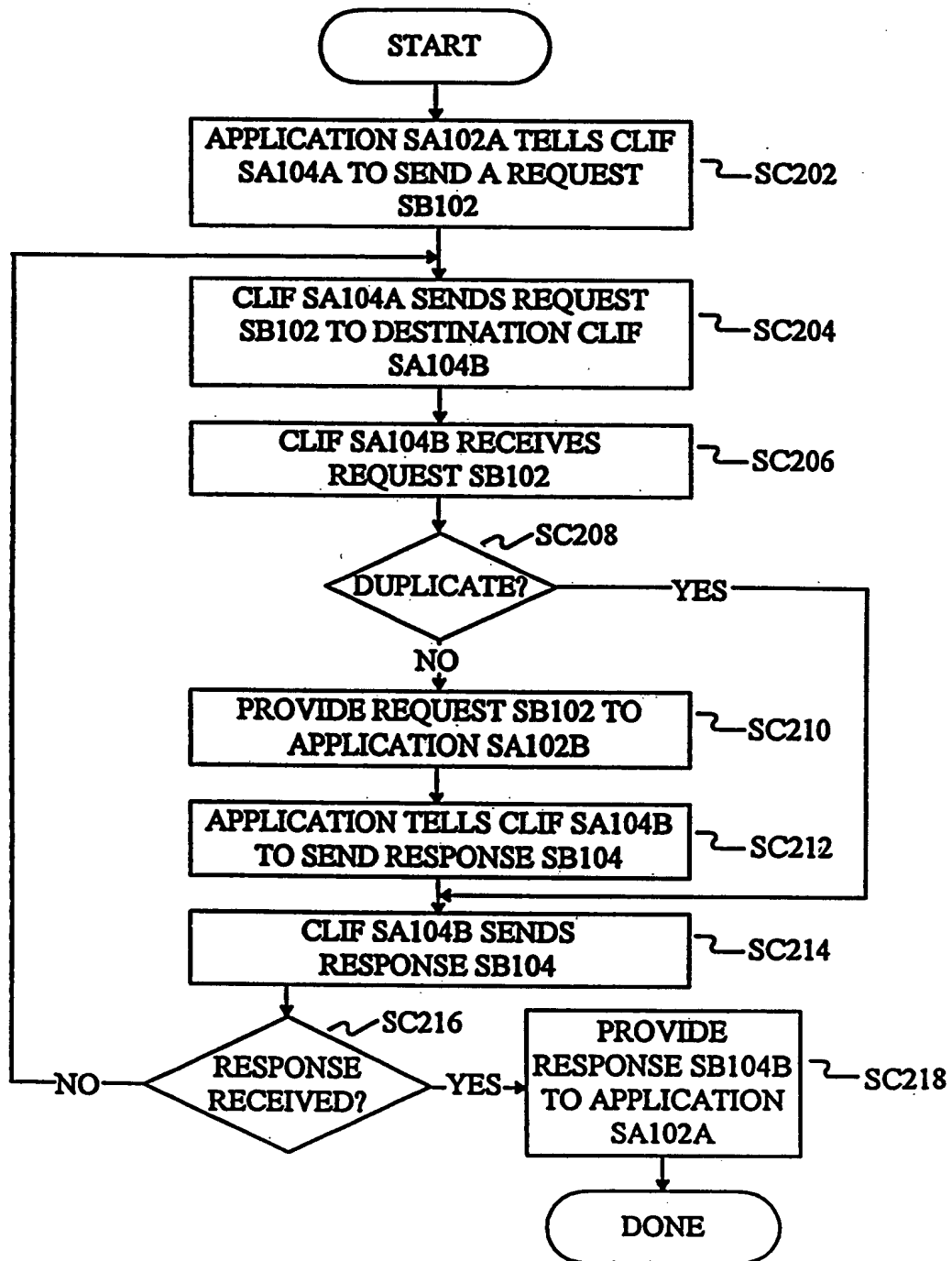


FIG 145

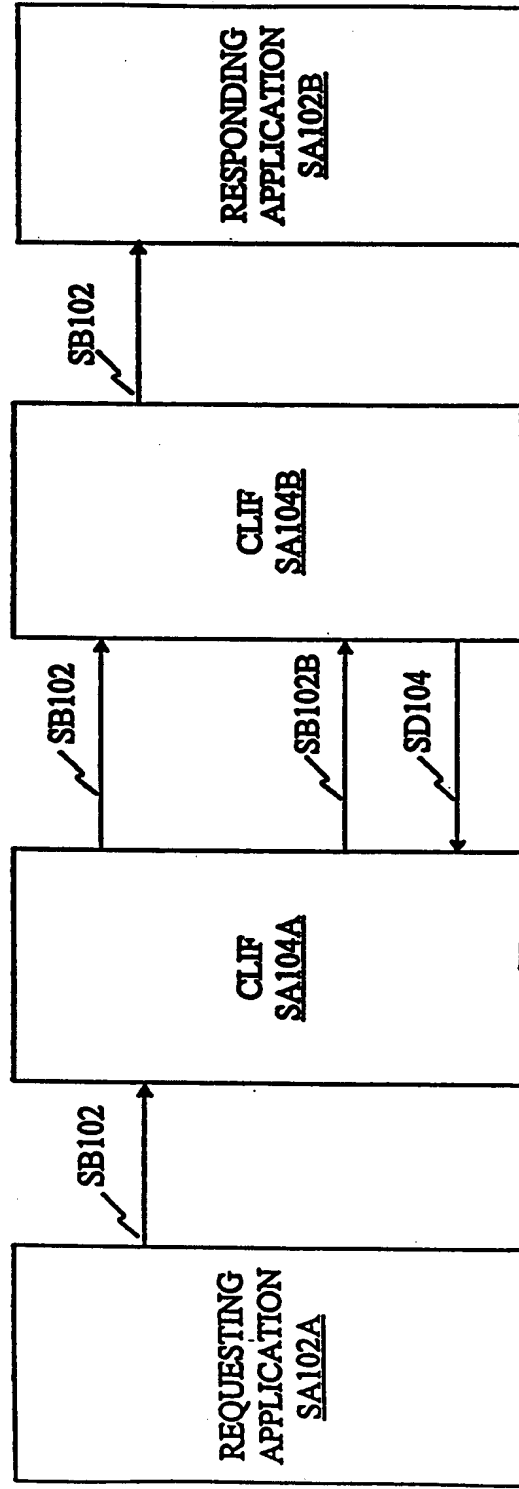


FIG 146

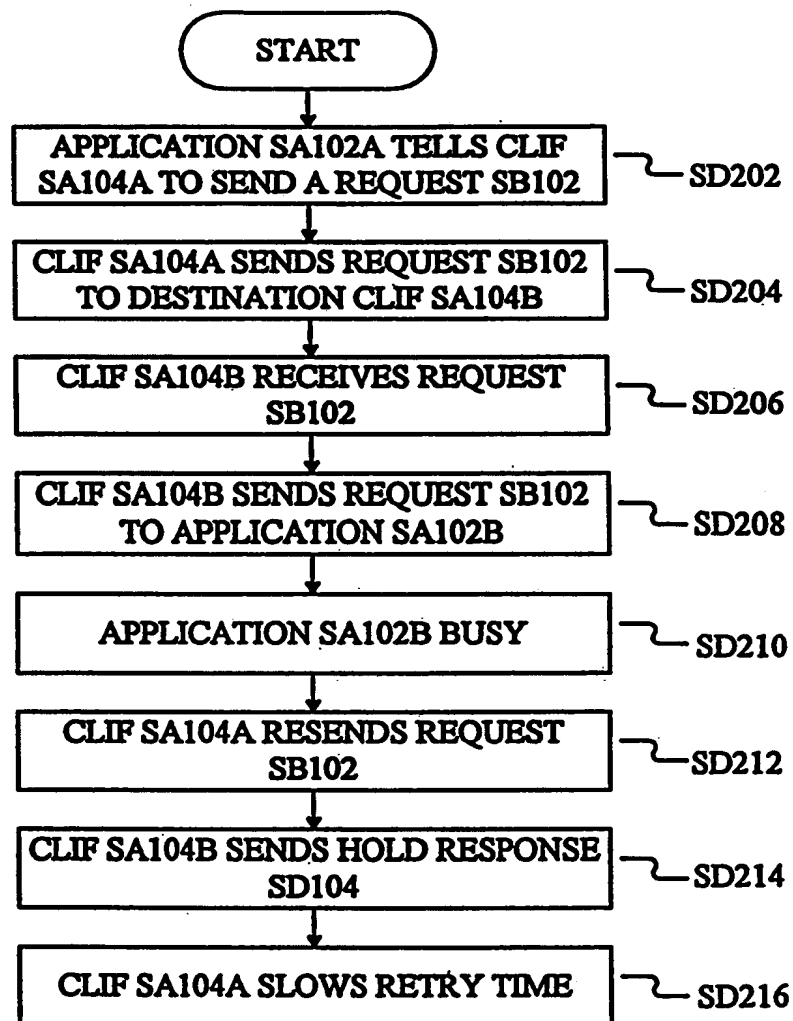


FIG 147

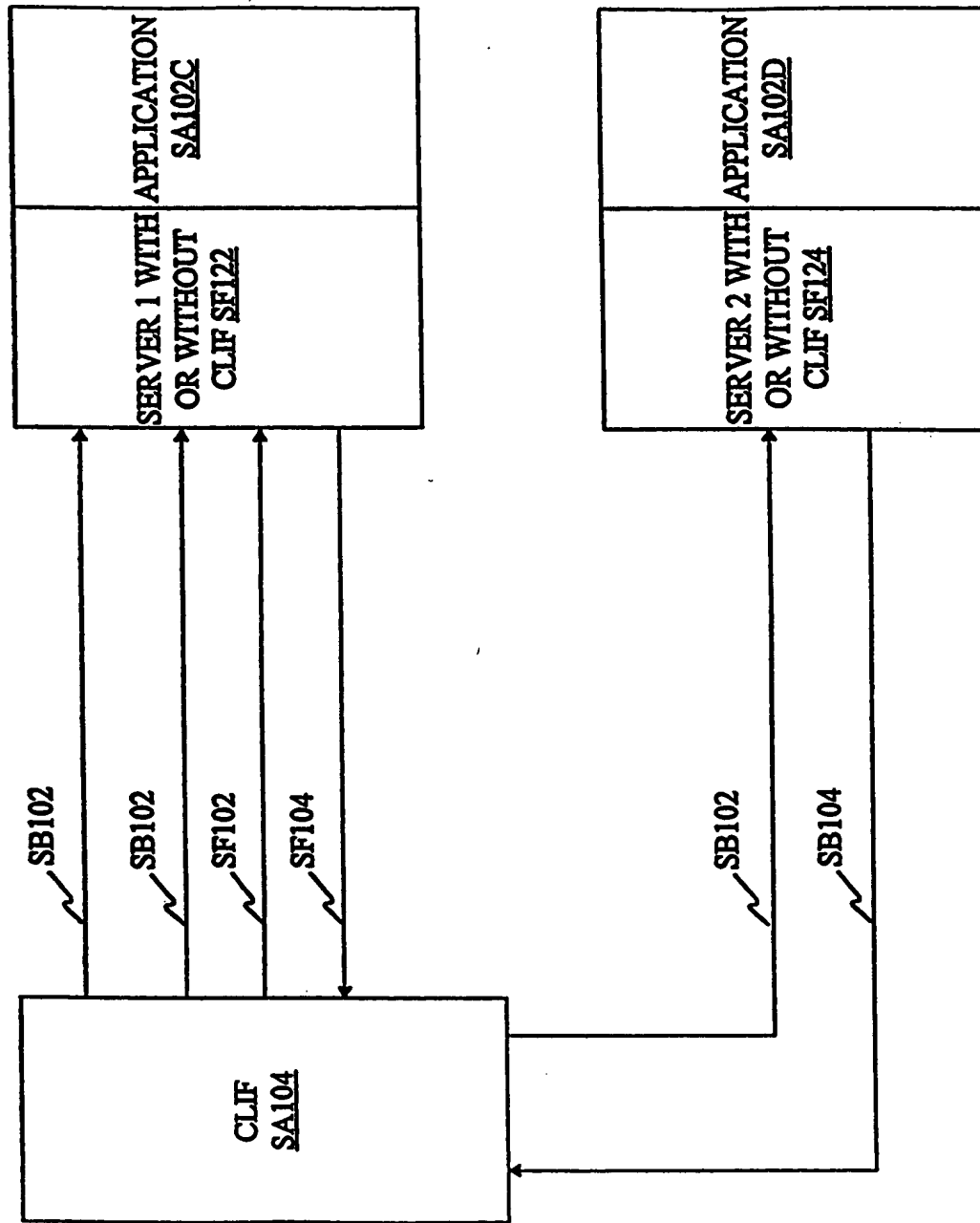


FIG 148

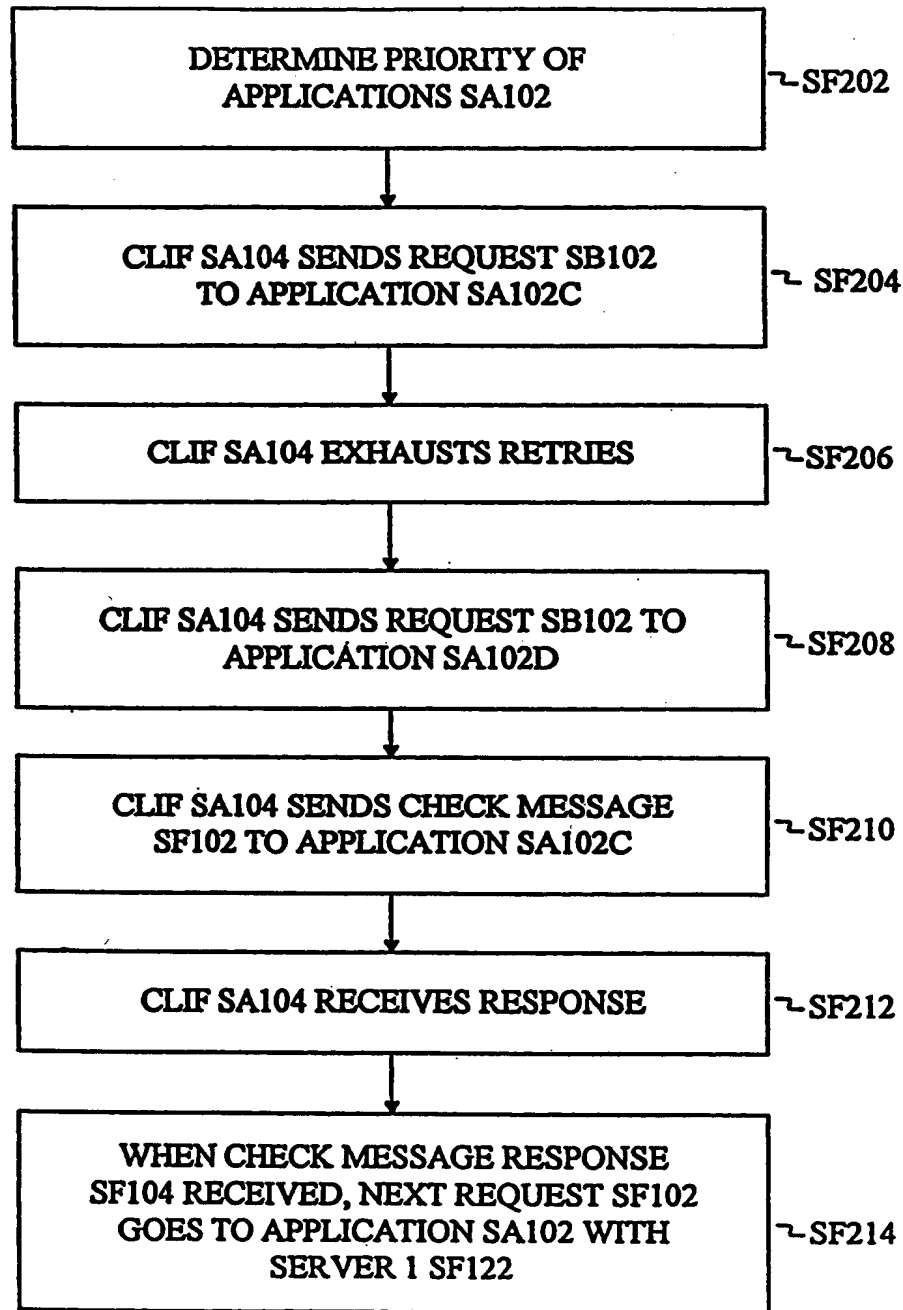


FIG 149

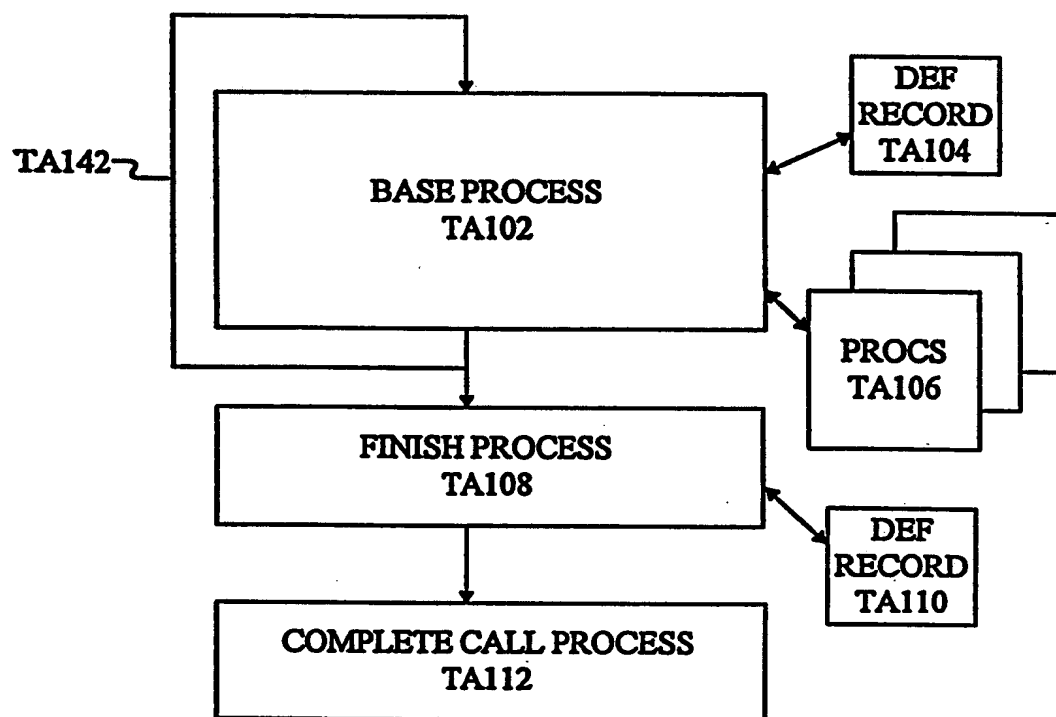


FIG 150

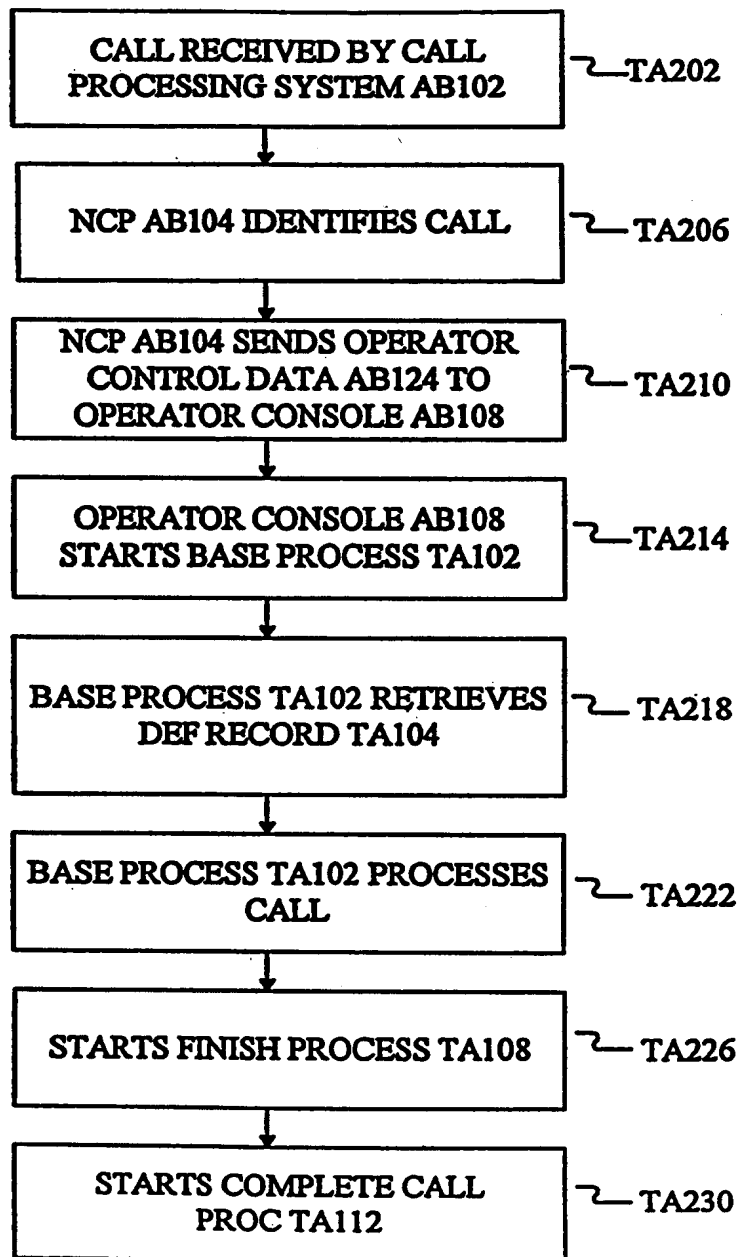


FIG 151



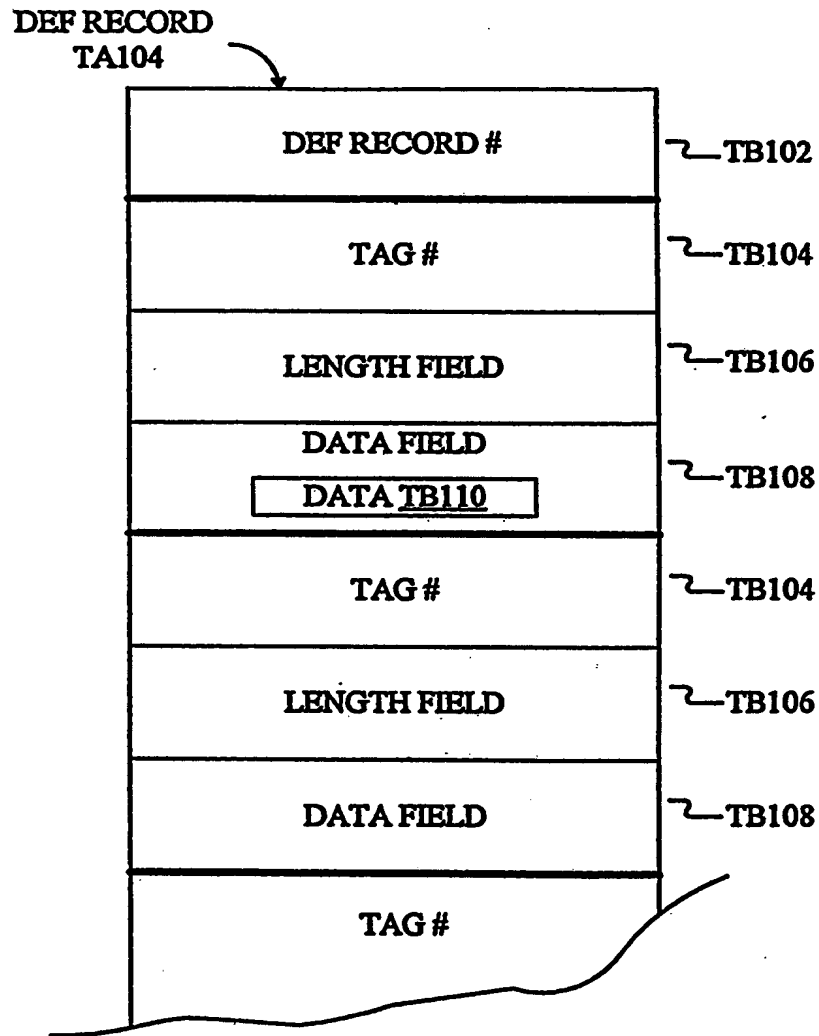
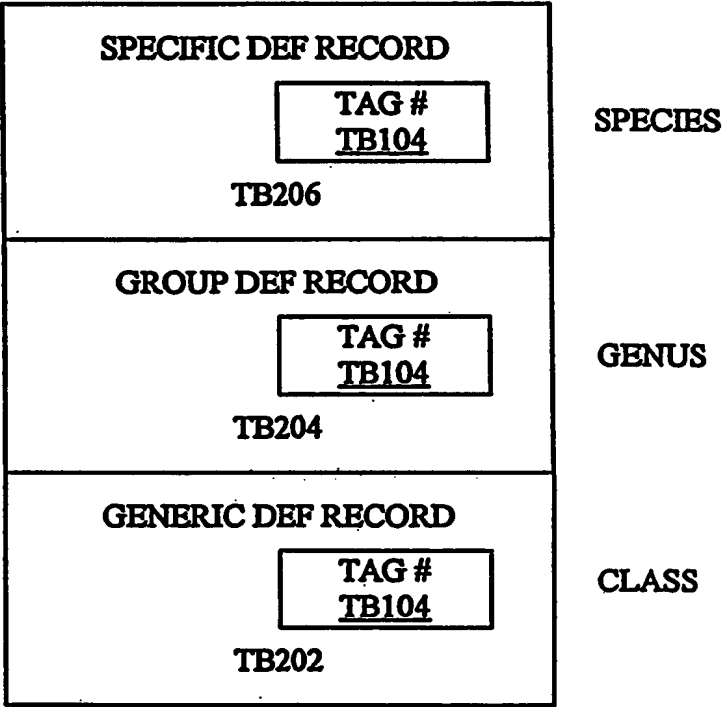
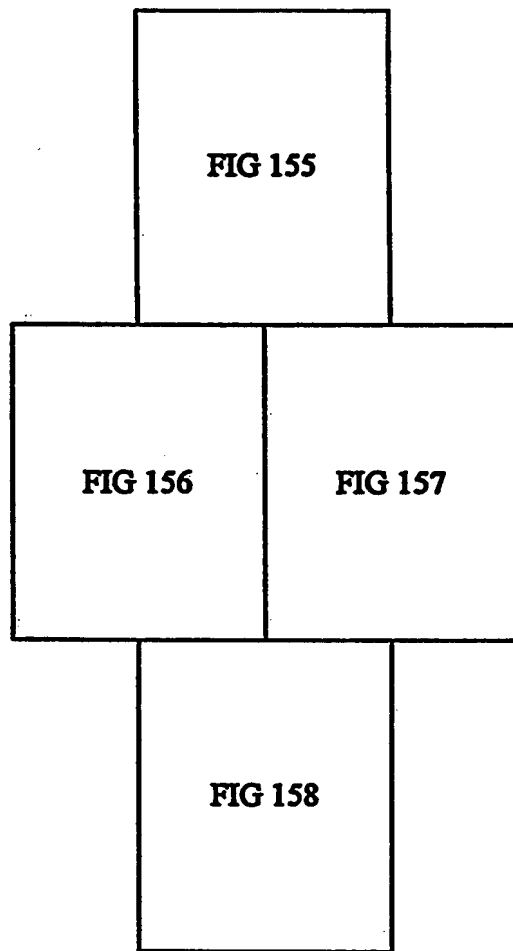


FIG 152



**FIG 153**



**FIG 154**

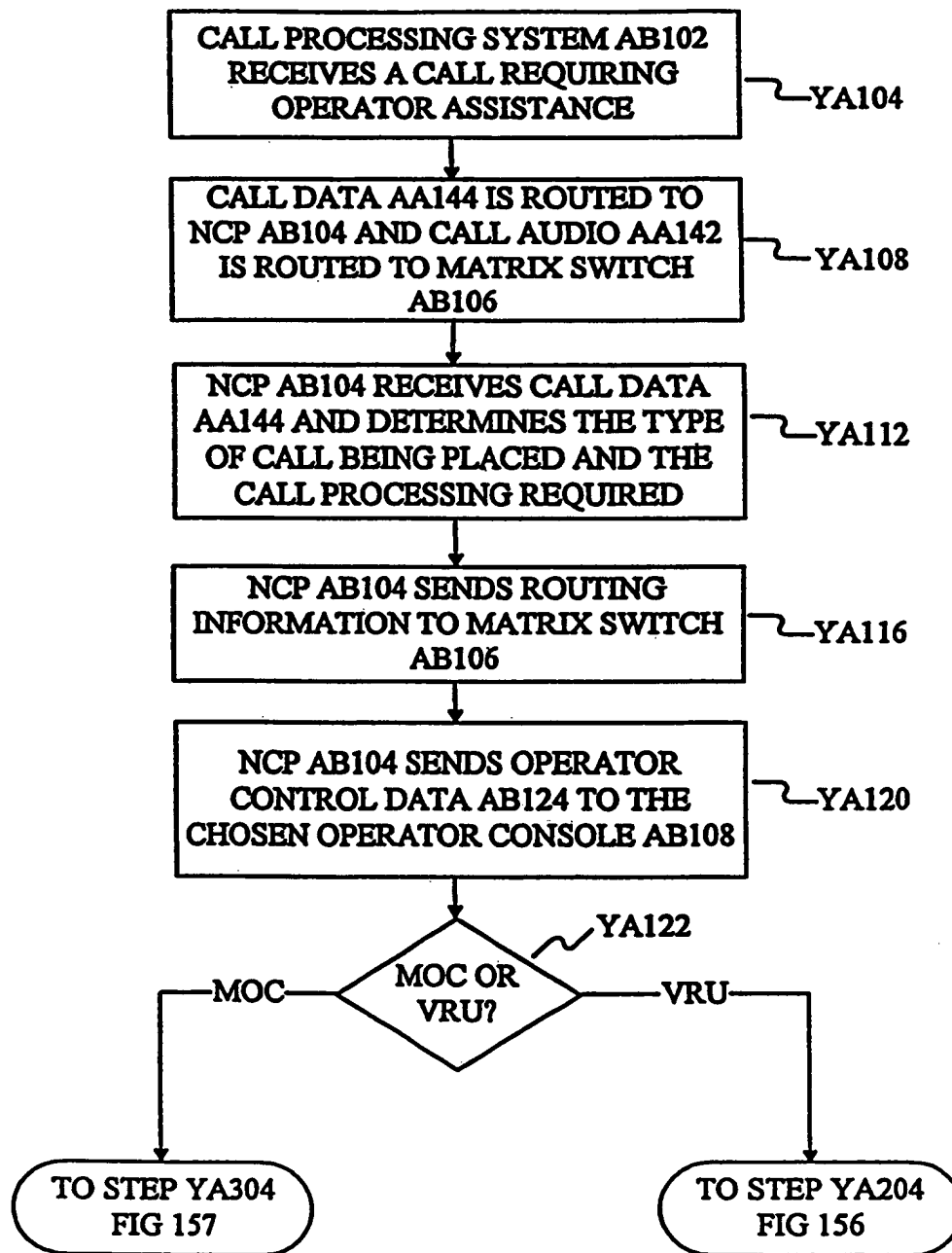


FIG 155

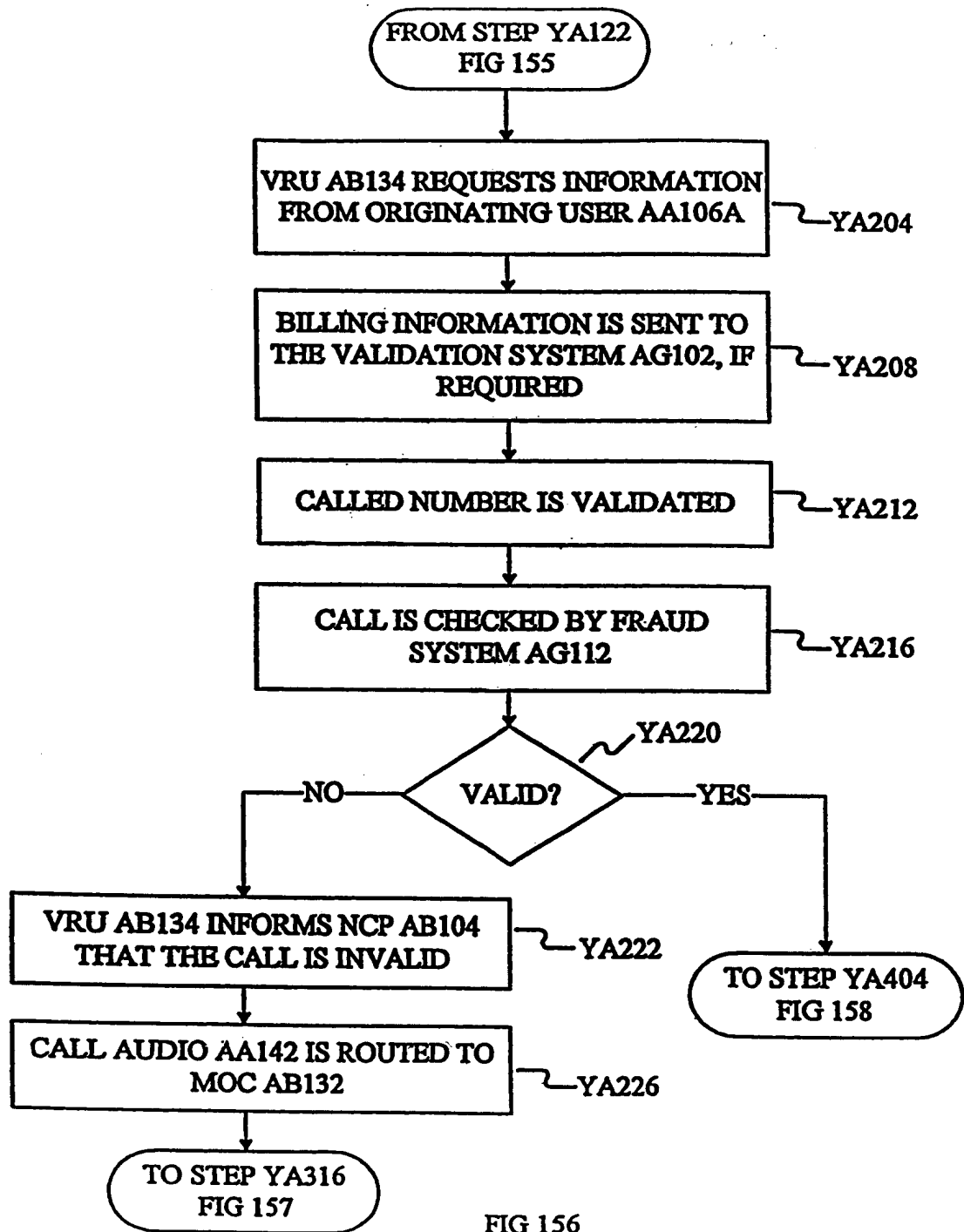


FIG 156

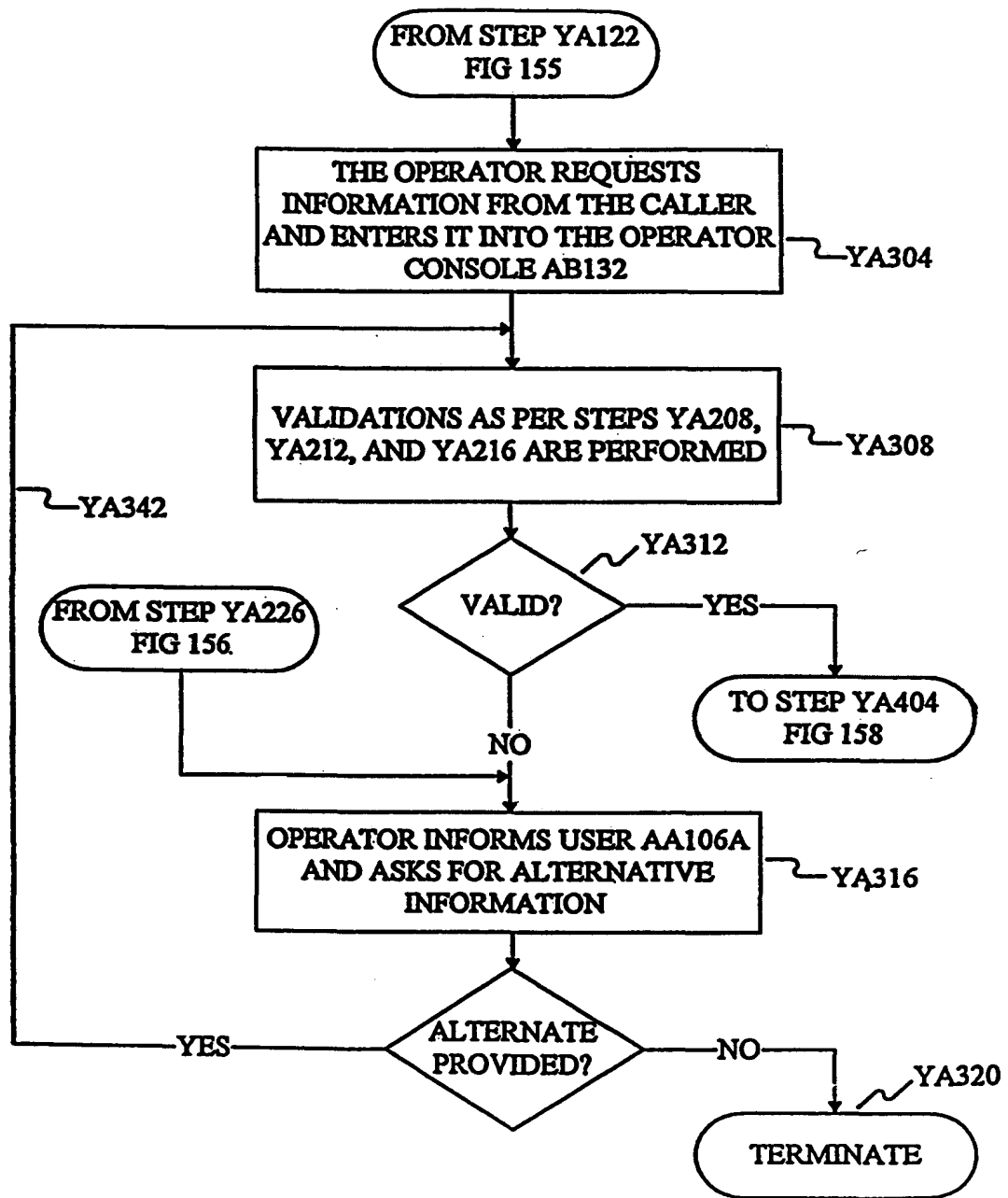


FIG 157

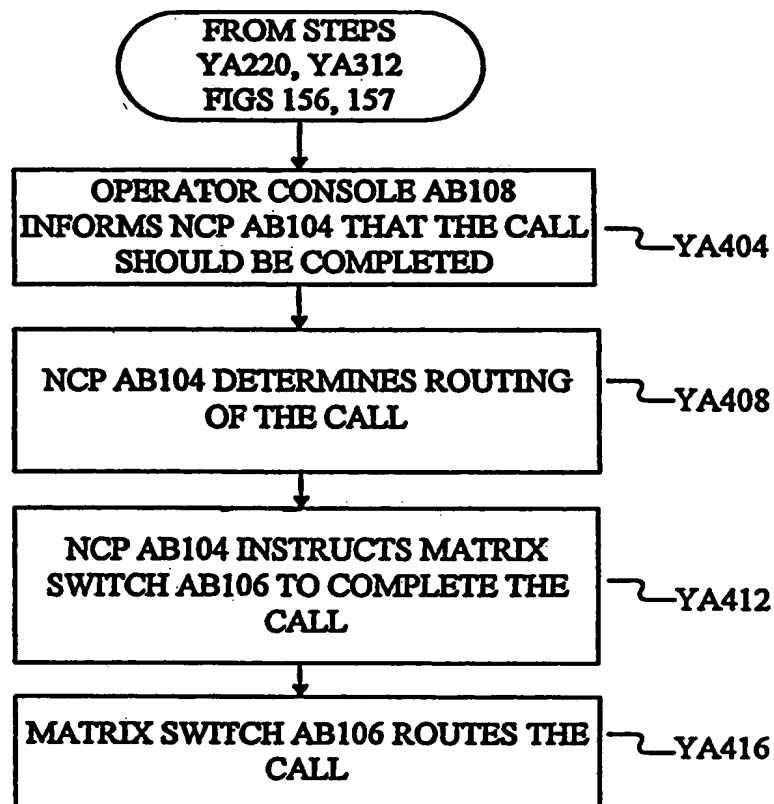
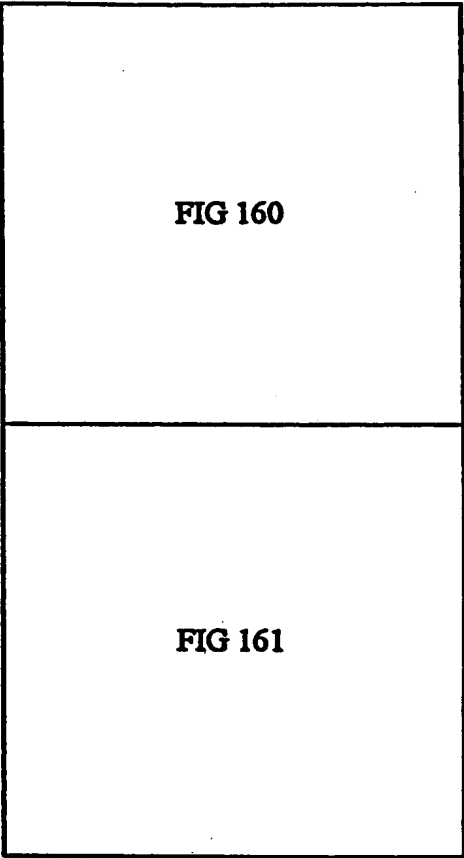


FIG 158



**FIG 160**

**FIG 161**

**FIG 159**



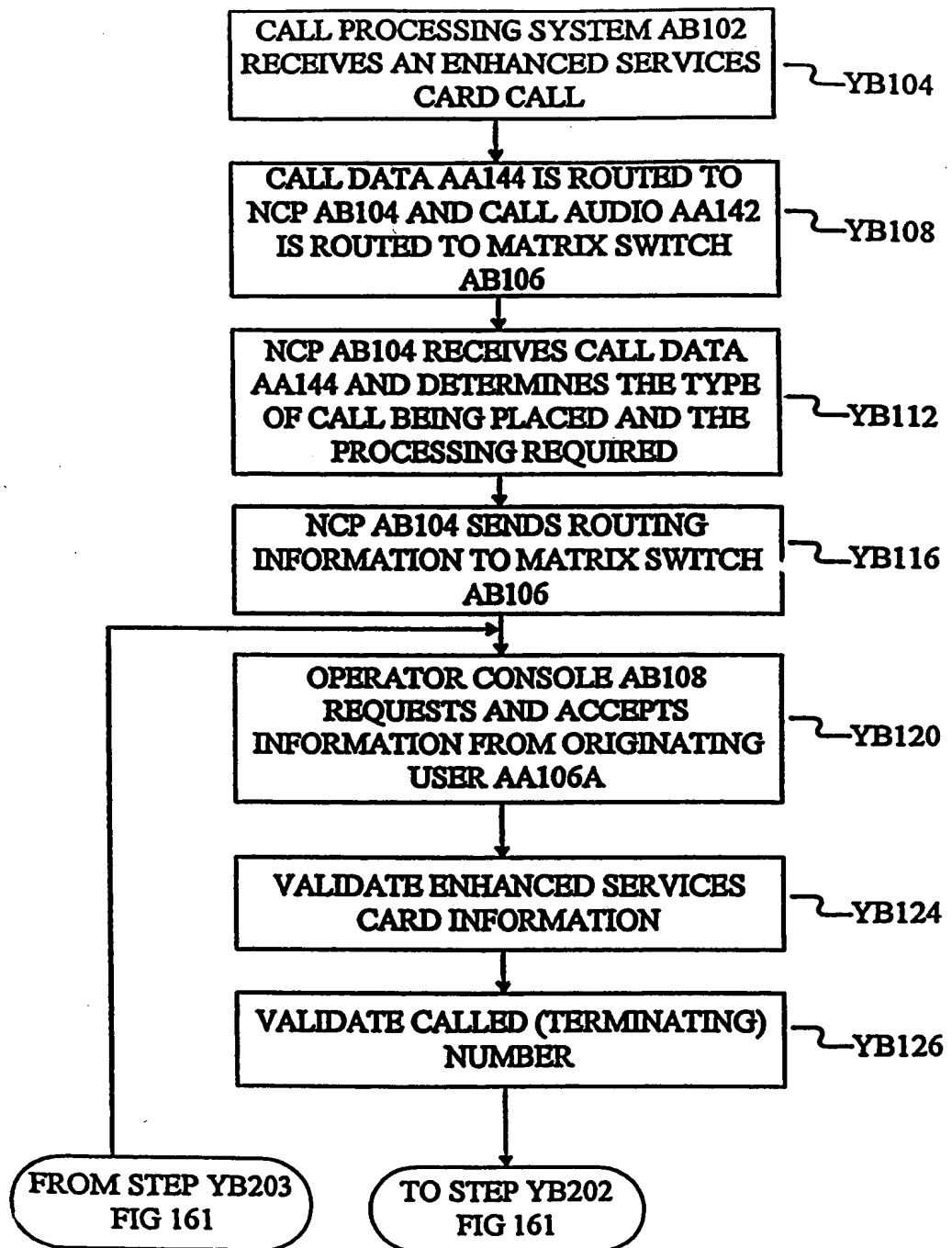


FIG 160

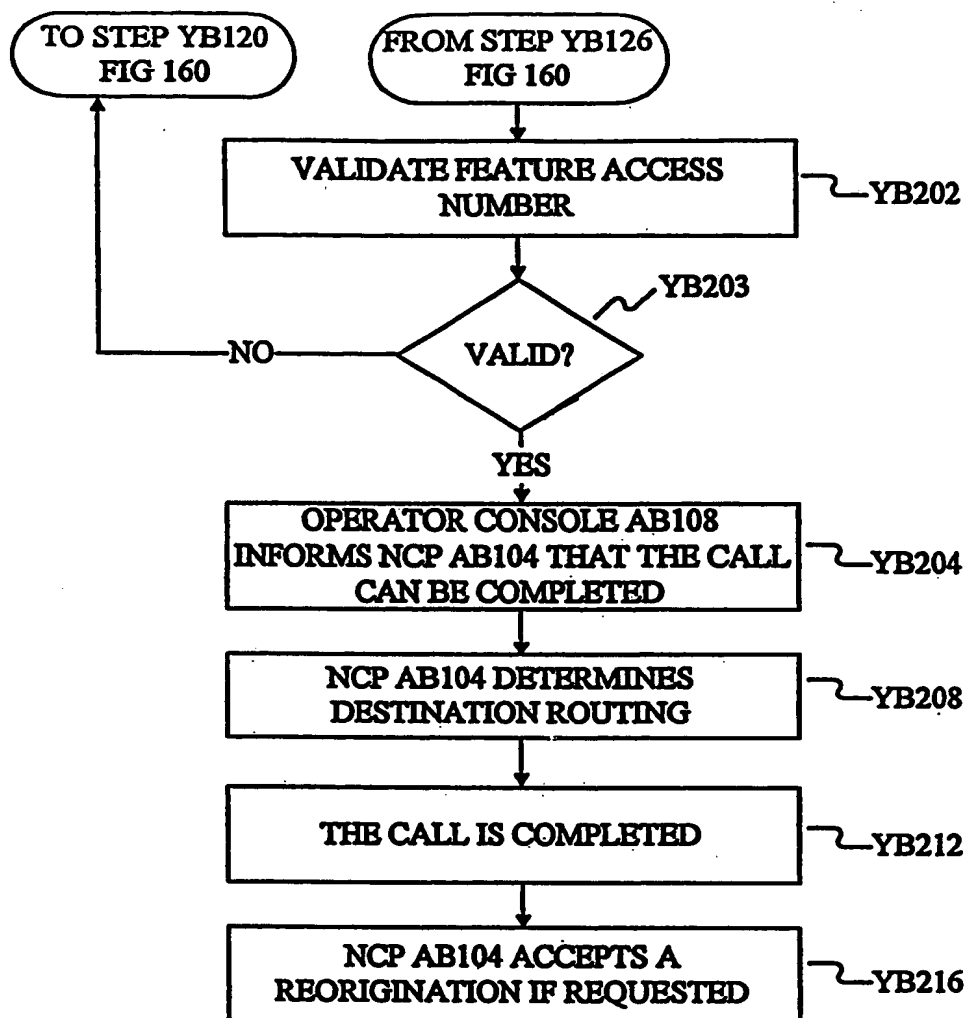
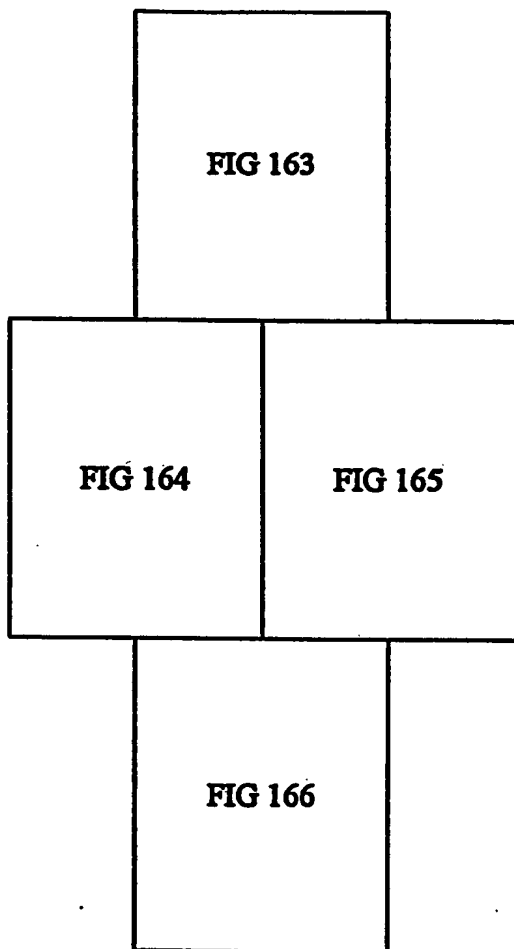


FIG 161



**FIG 162**

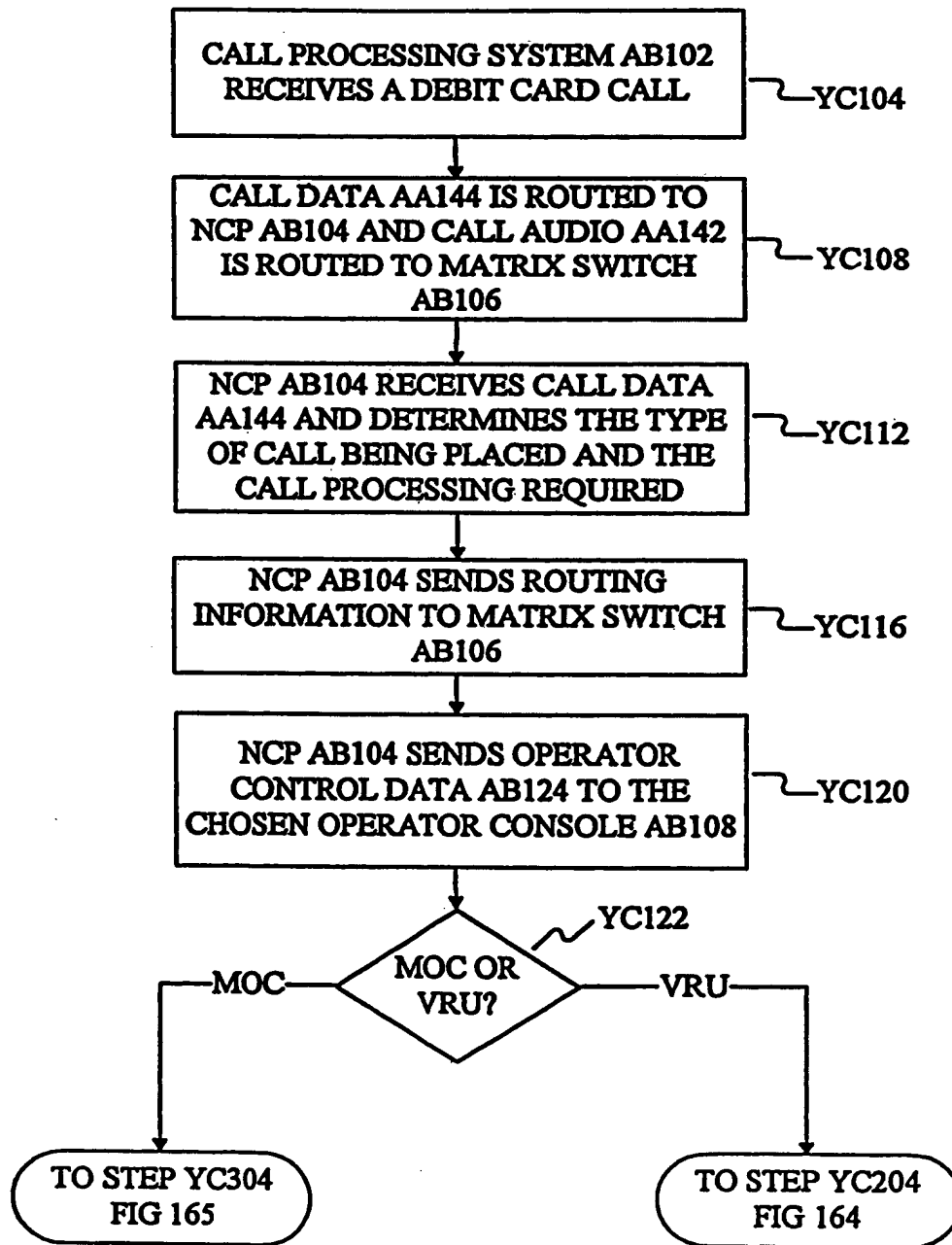


FIG 163

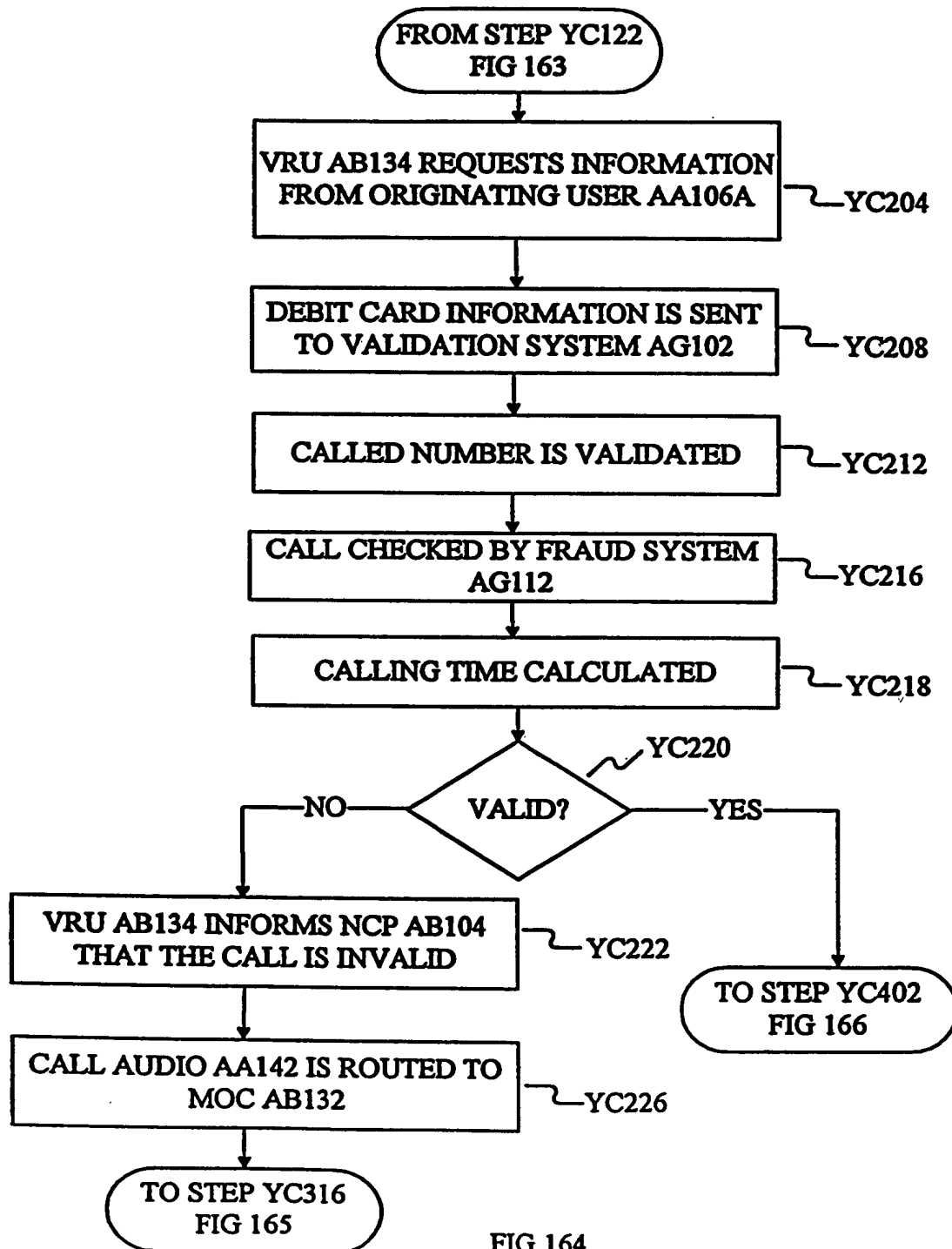


FIG 164

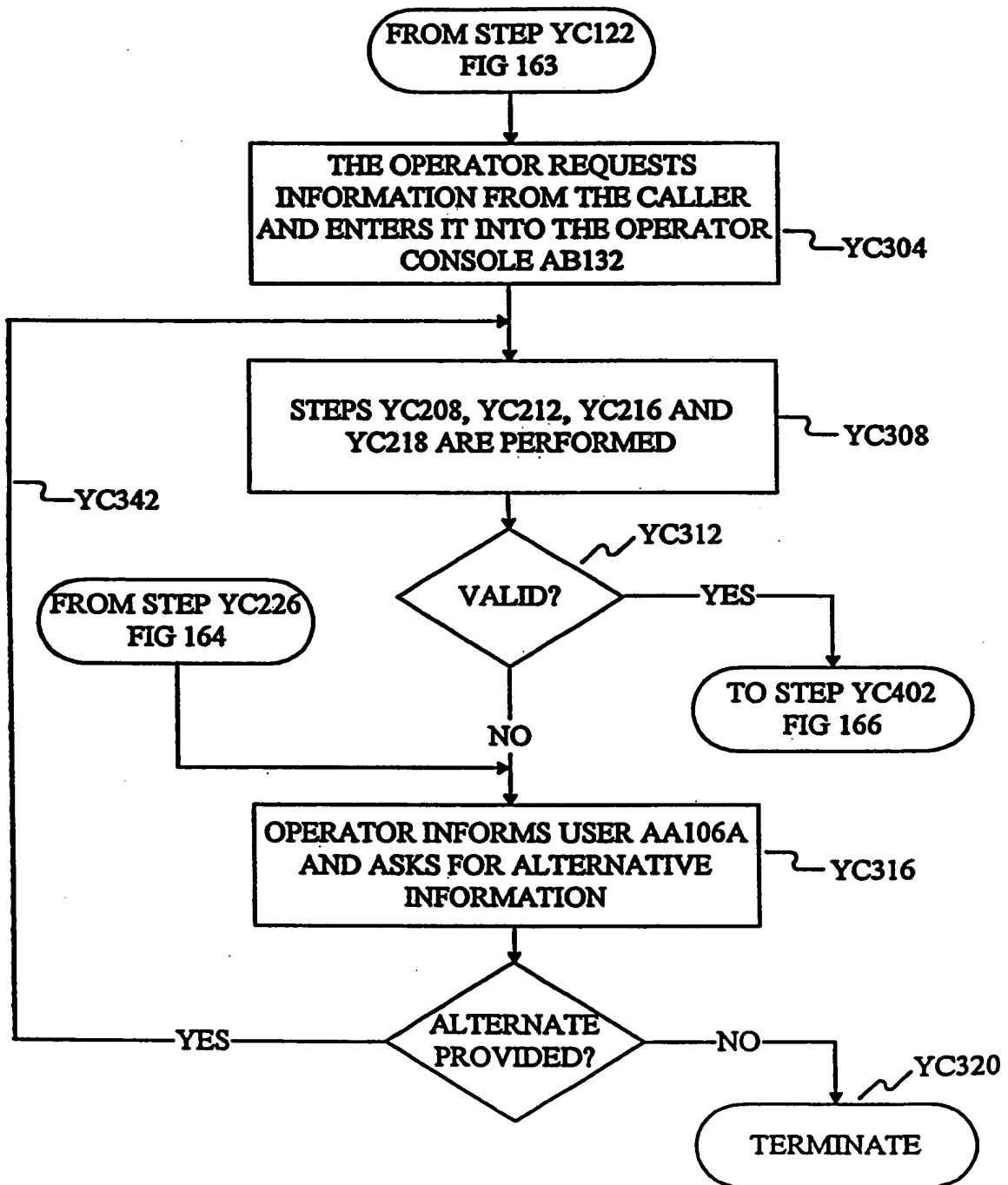


FIG 165

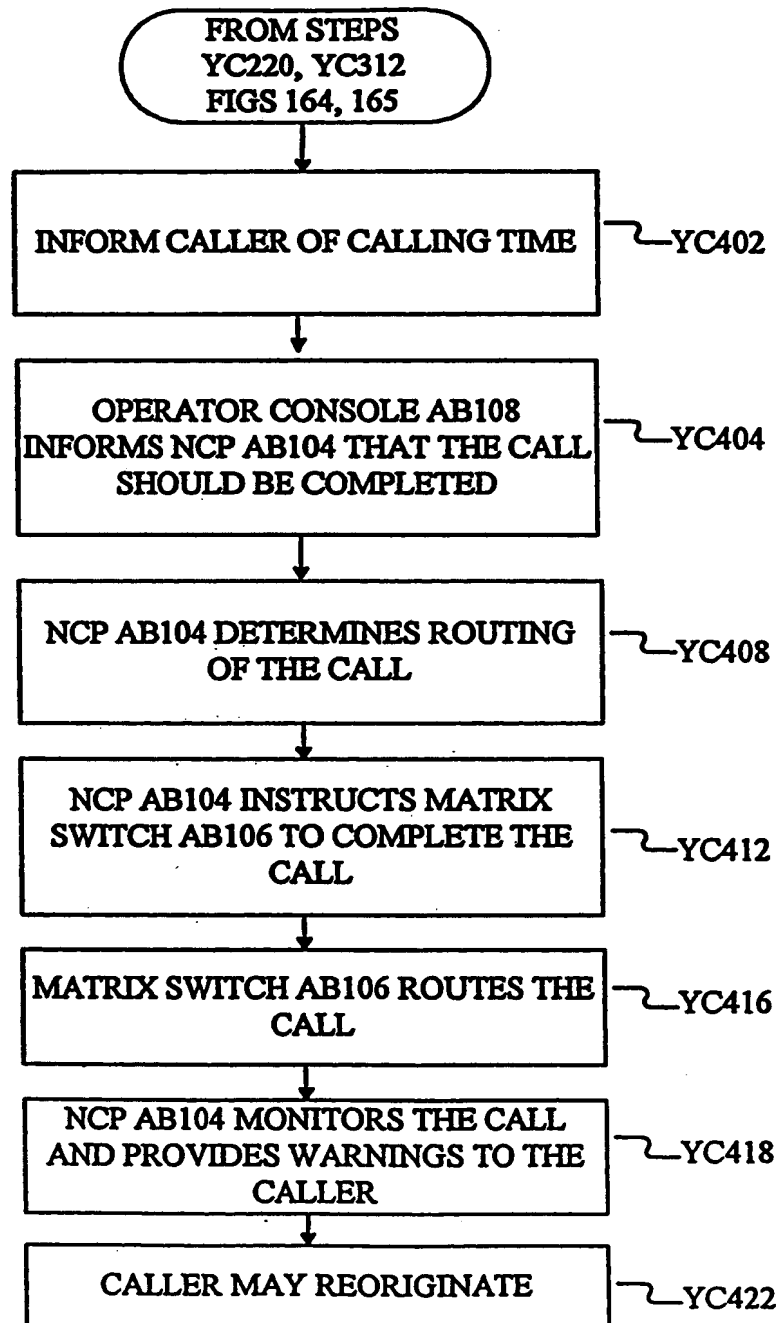
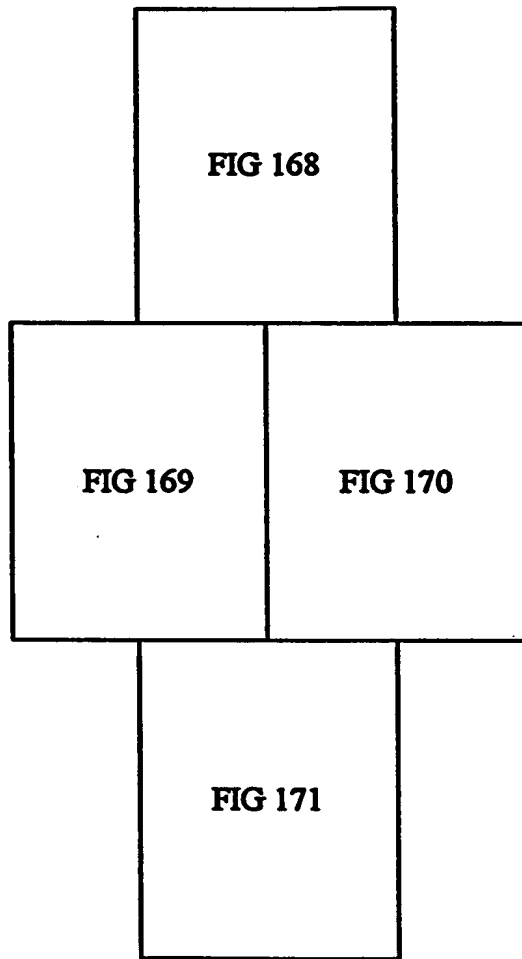


FIG 166



**FIG 167**



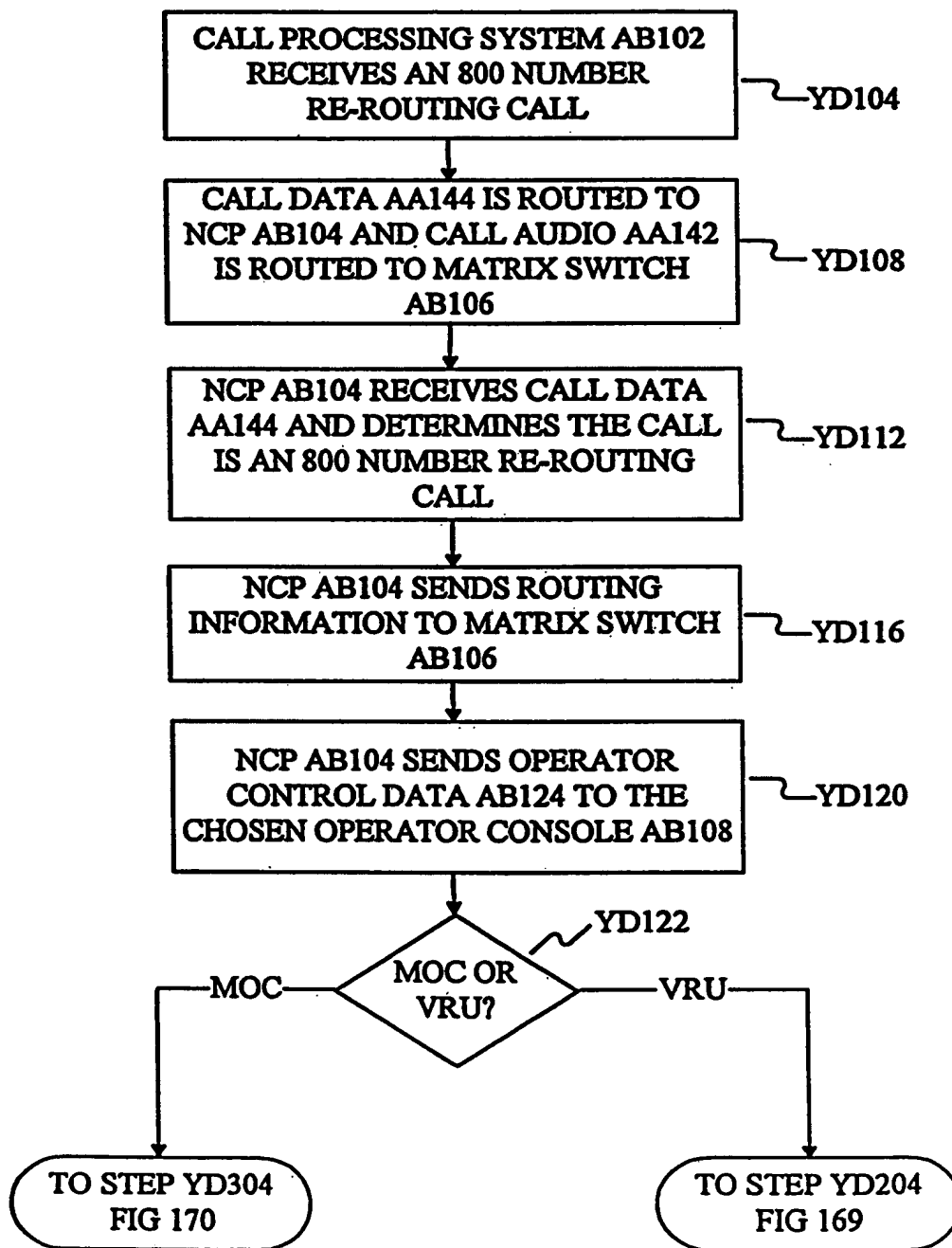


FIG 168

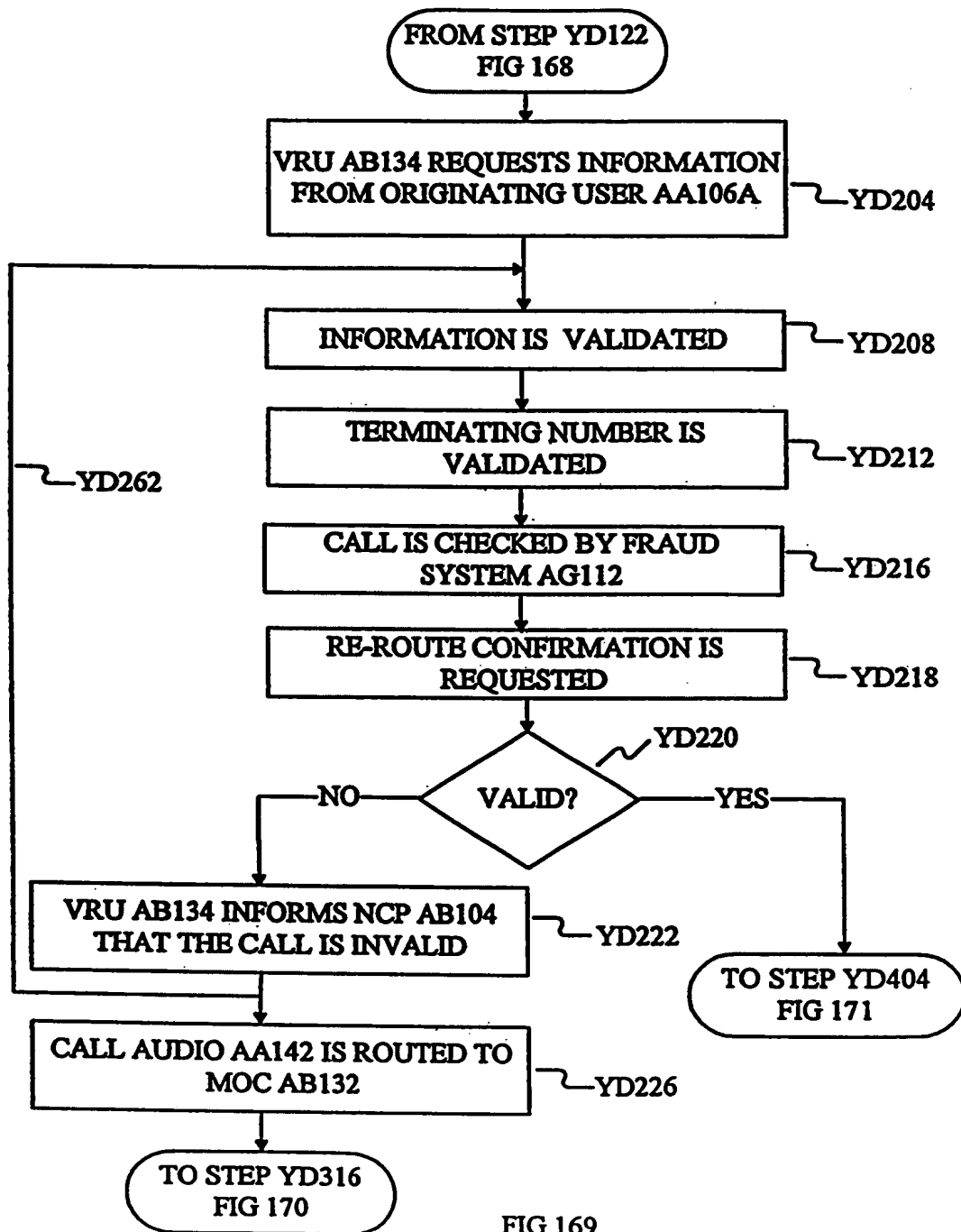


FIG 169

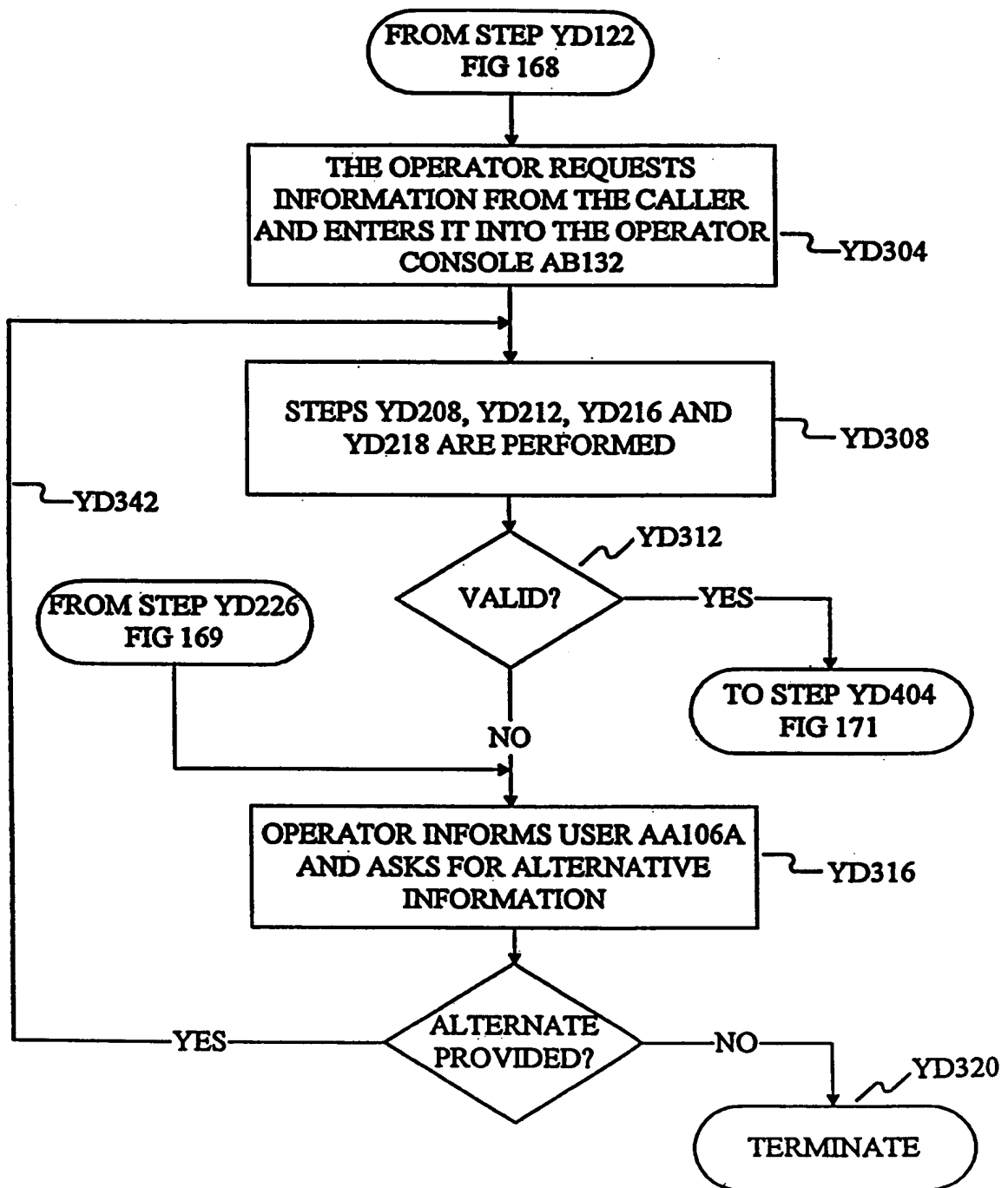


FIG 170

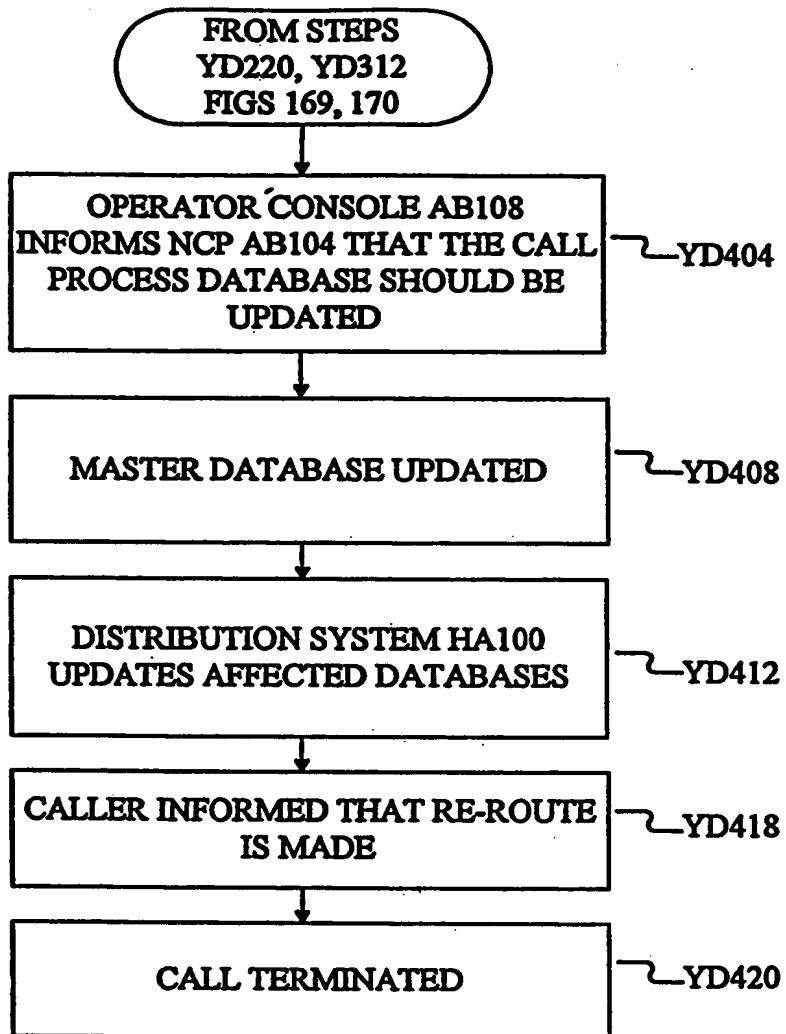


FIG 171

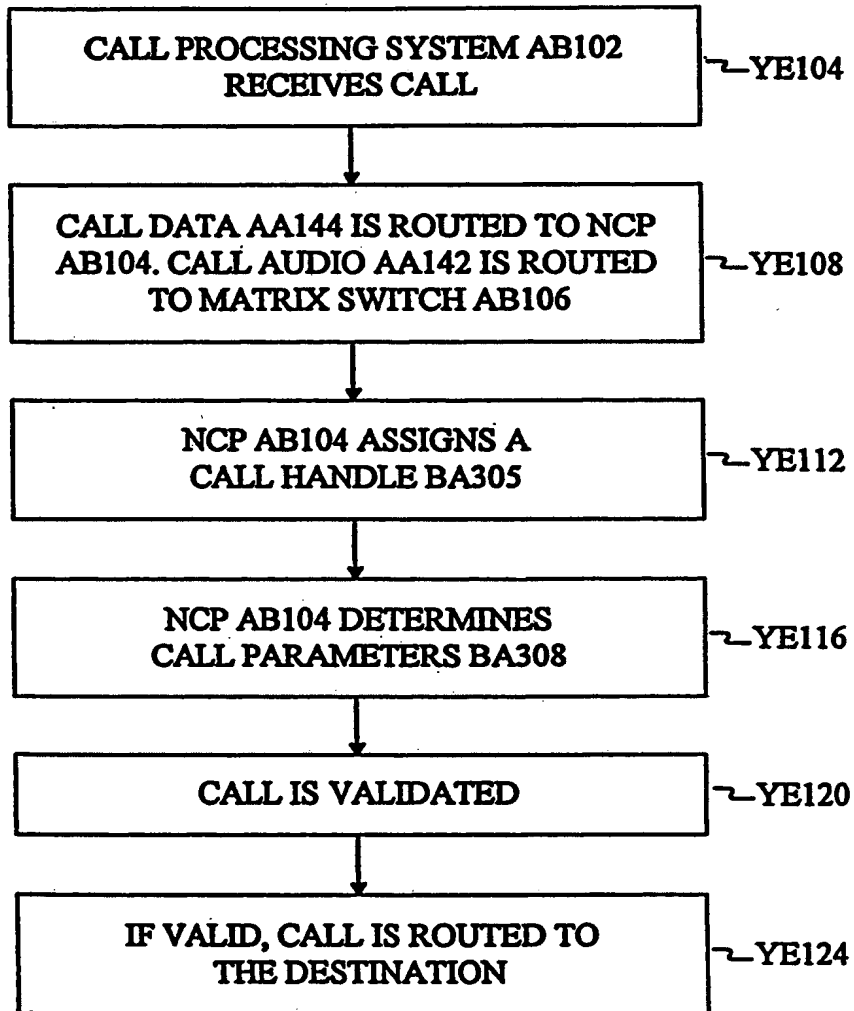


FIG 172

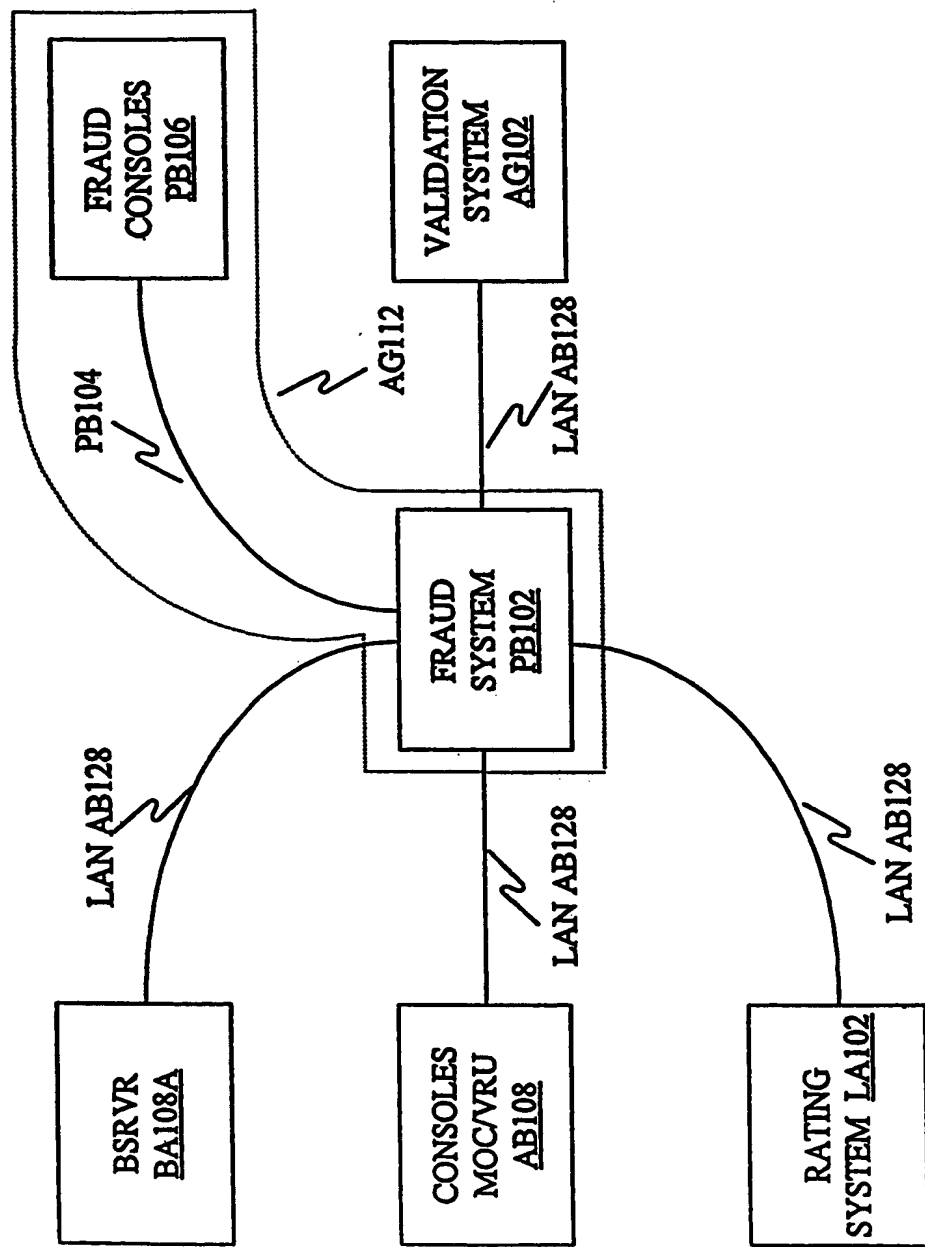


FIG 173

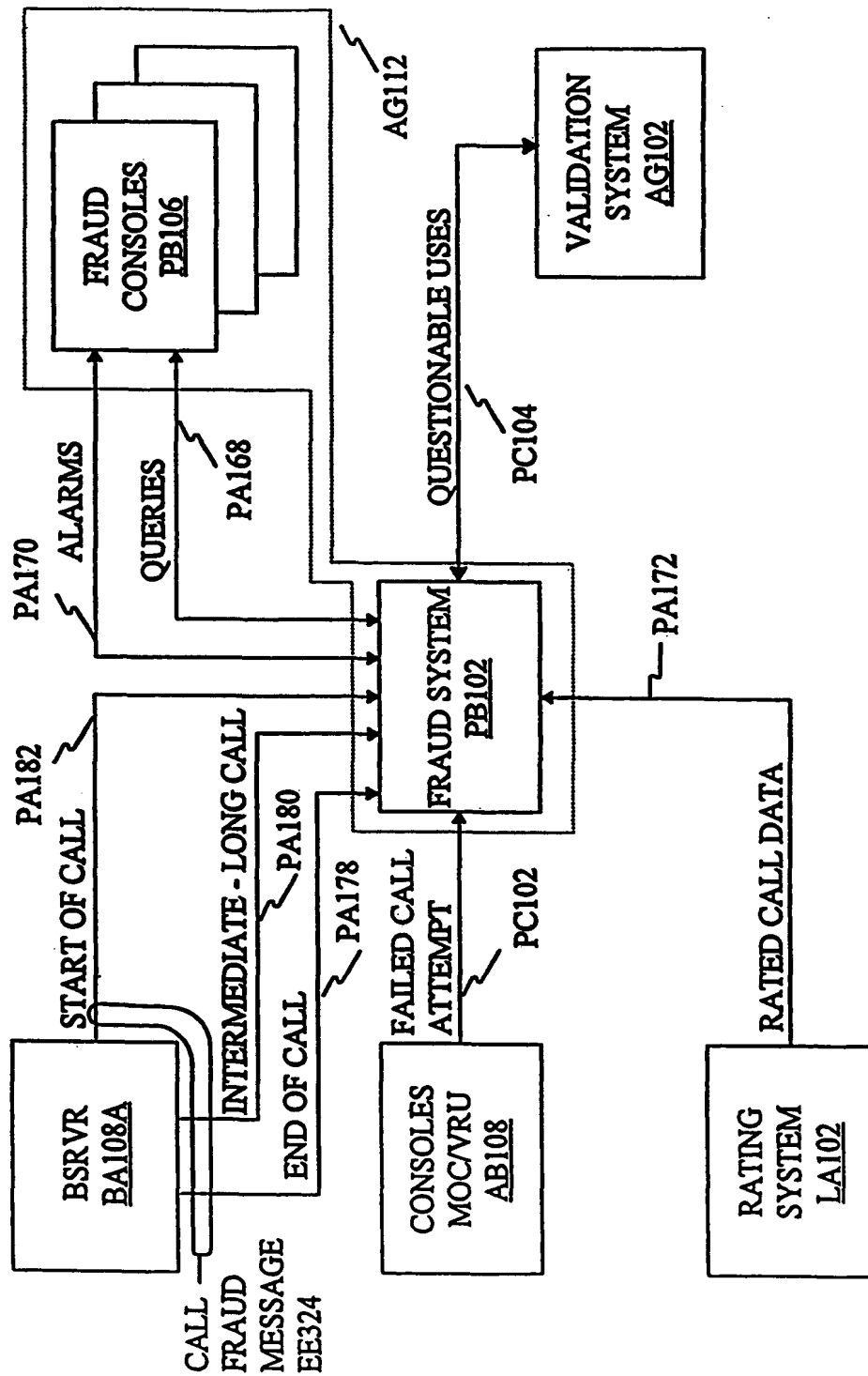
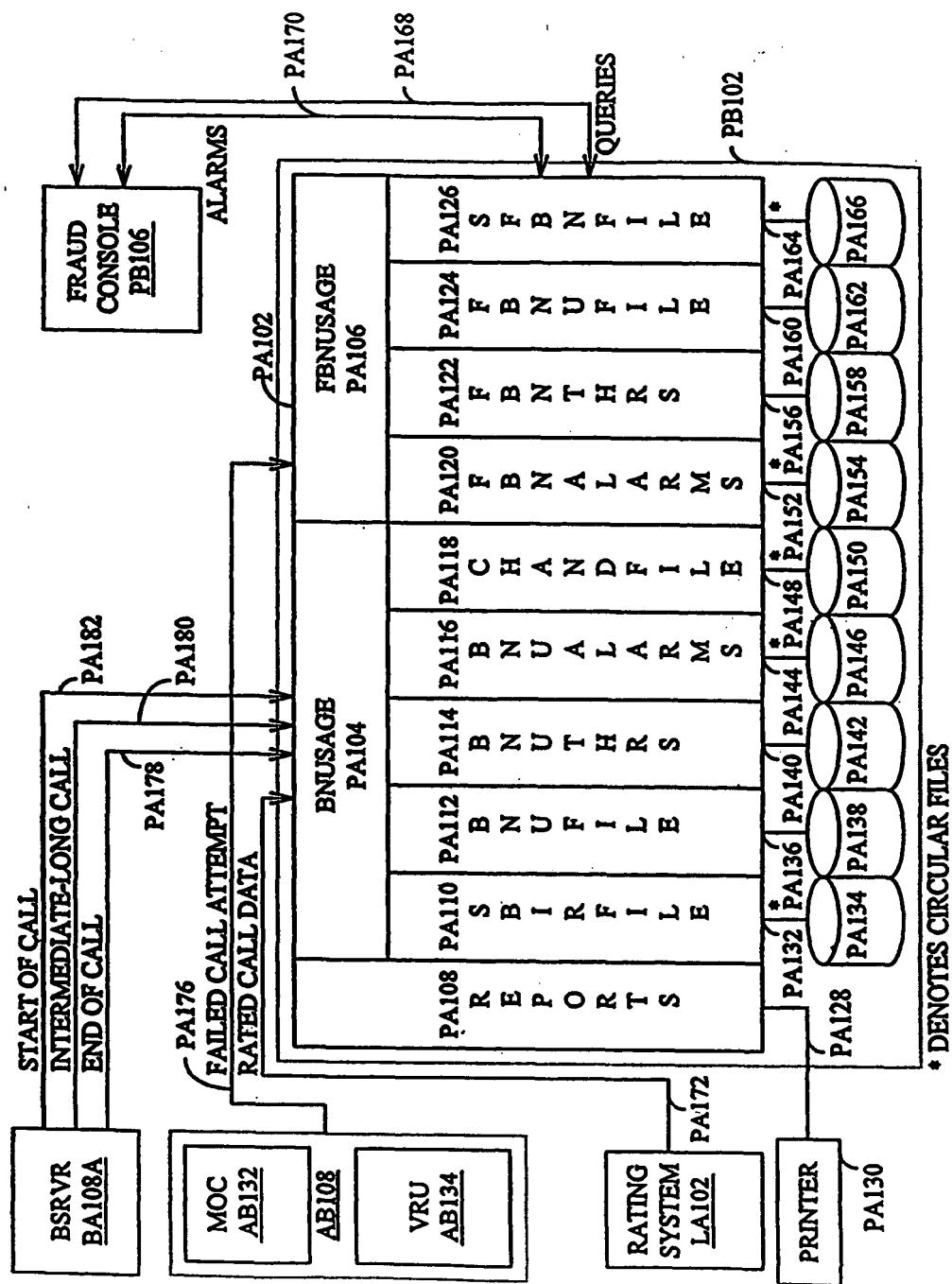


FIG 174







**FIG 177**

**FIG 178**

**FIG 176**

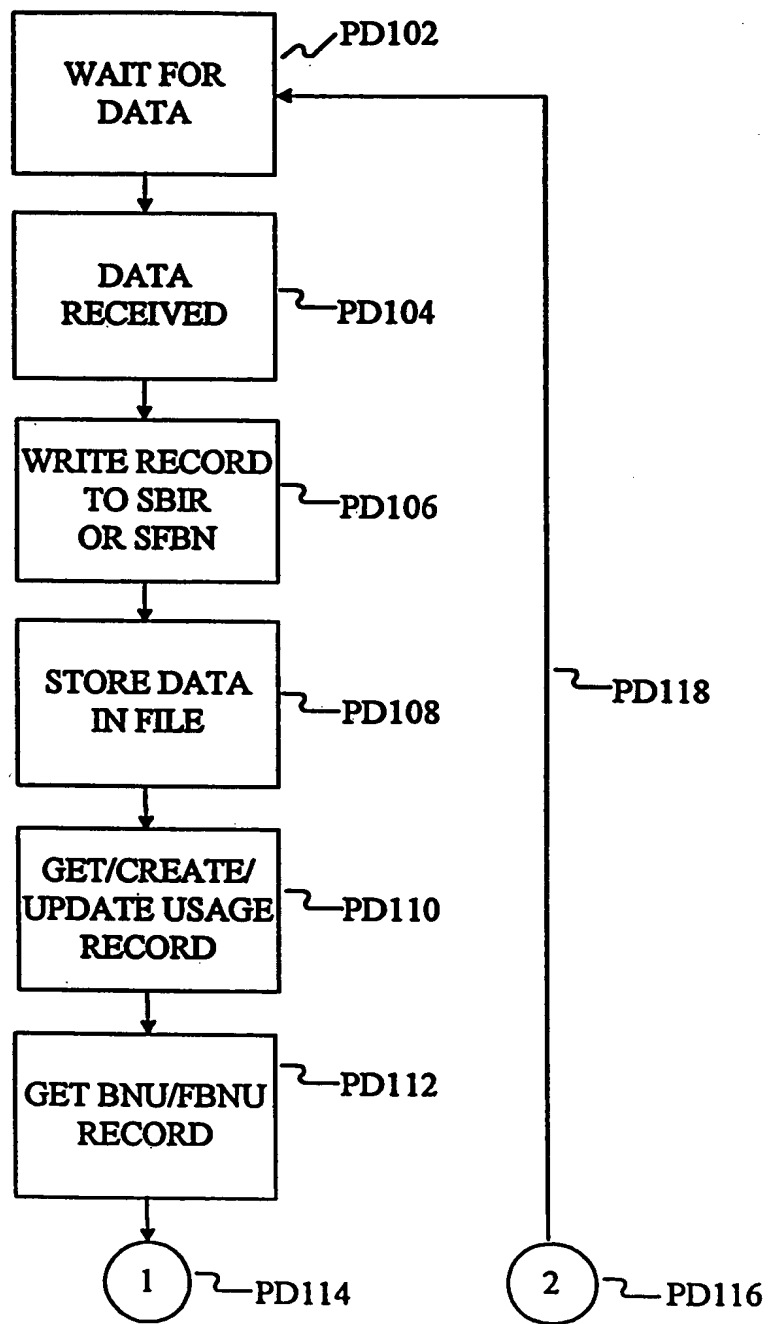


FIG 177

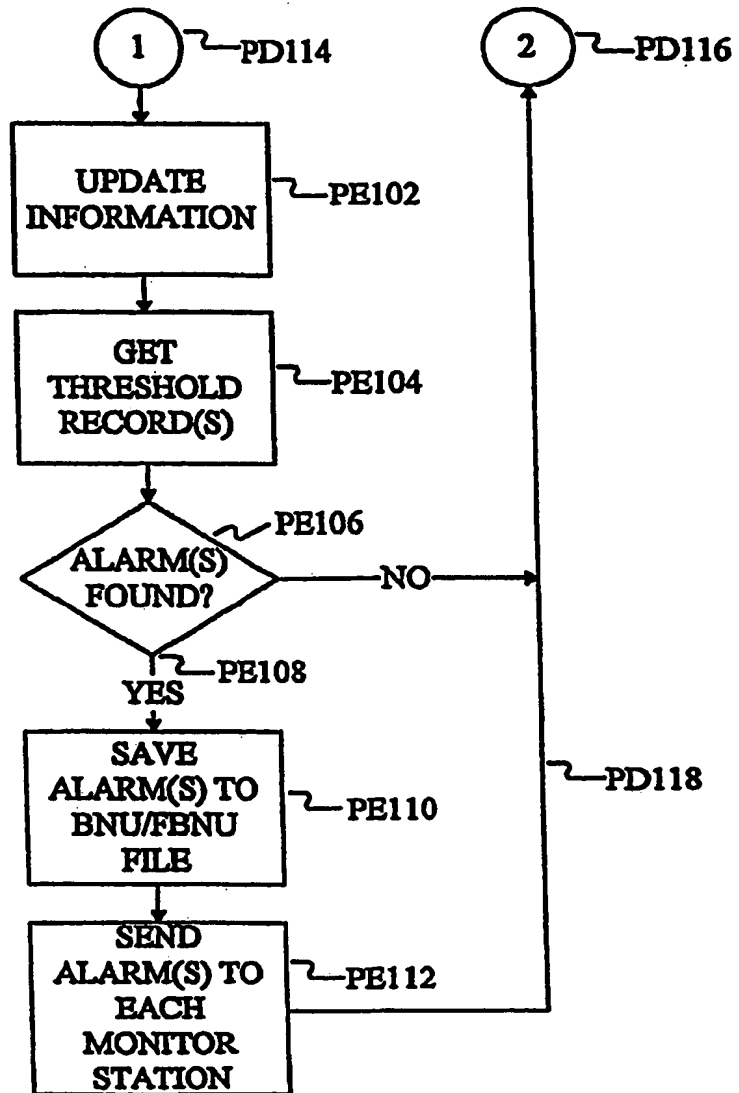


FIG 178

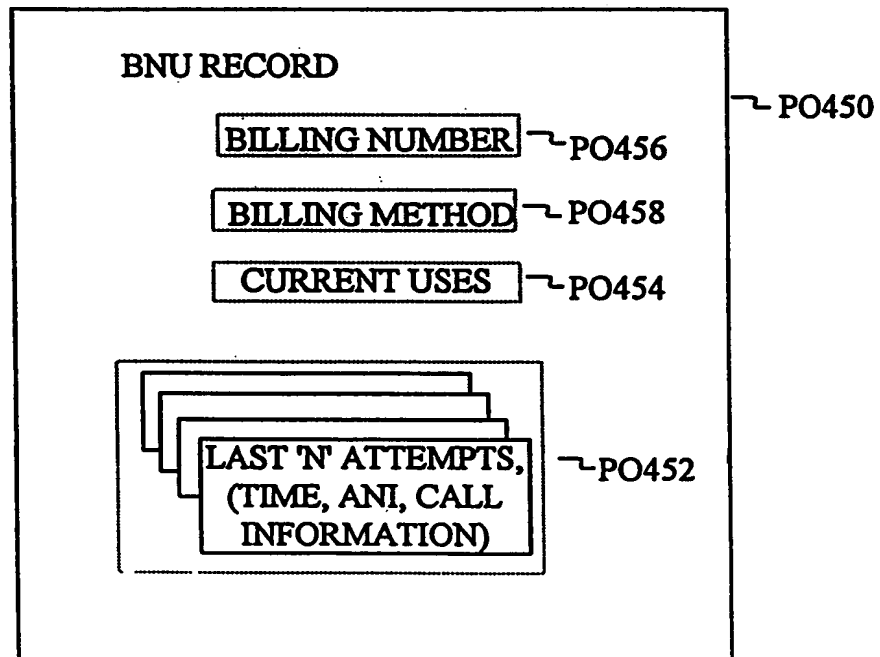
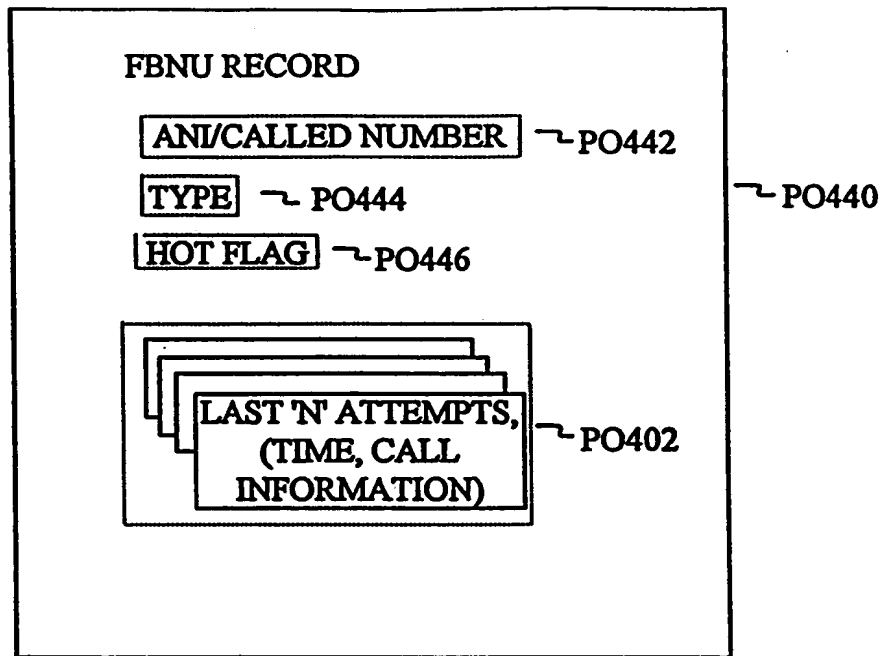


FIG 179

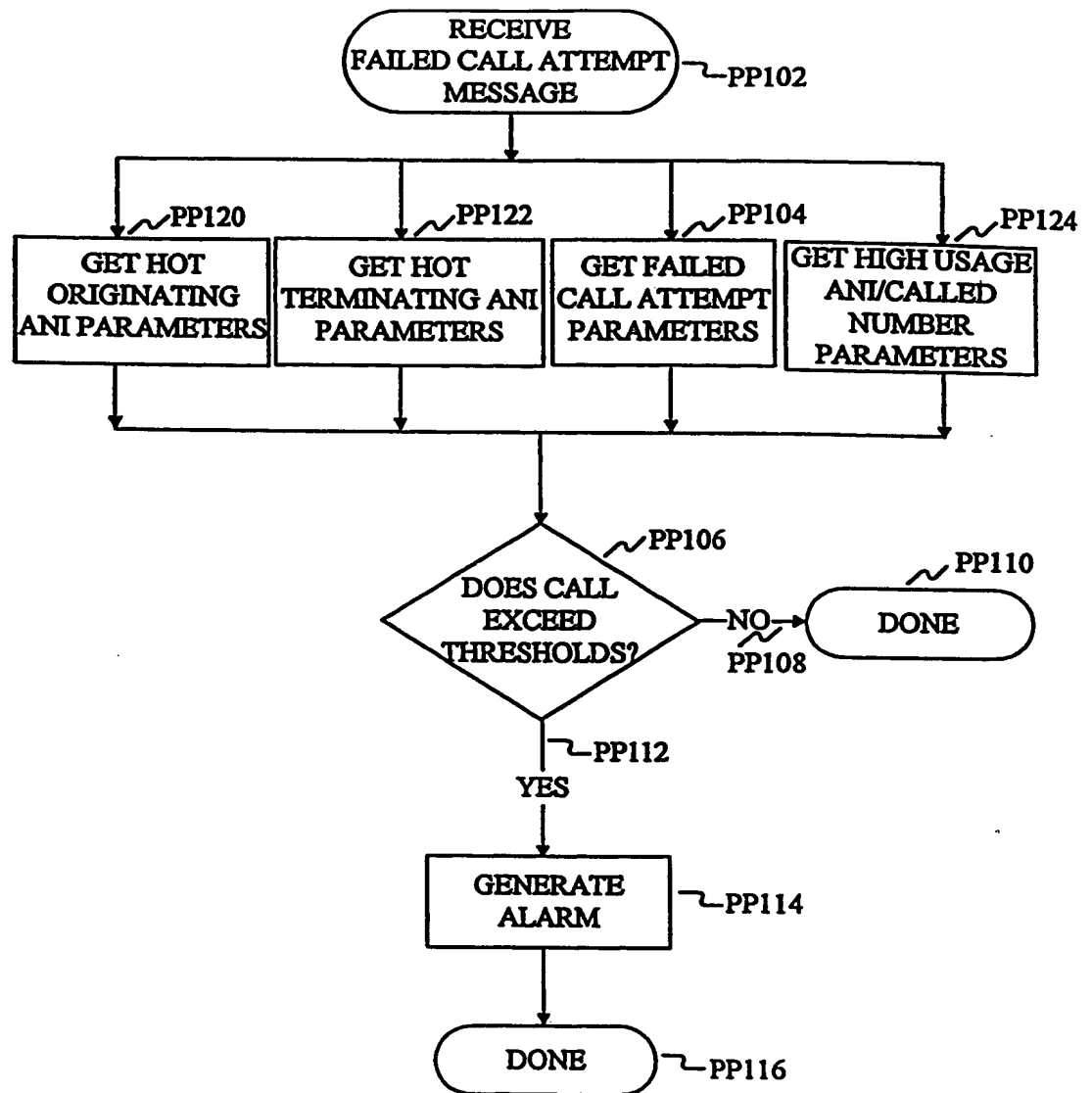


FIG 180

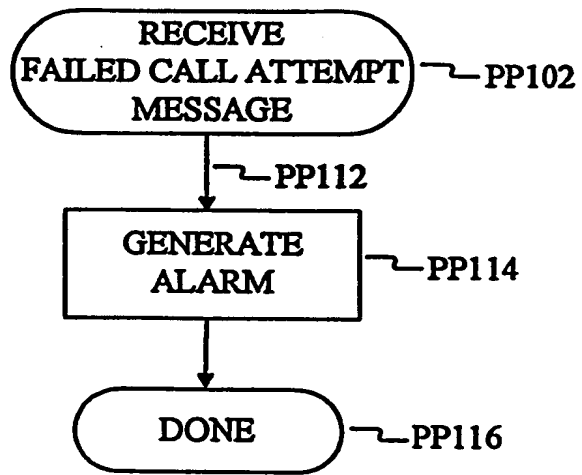


FIG 181

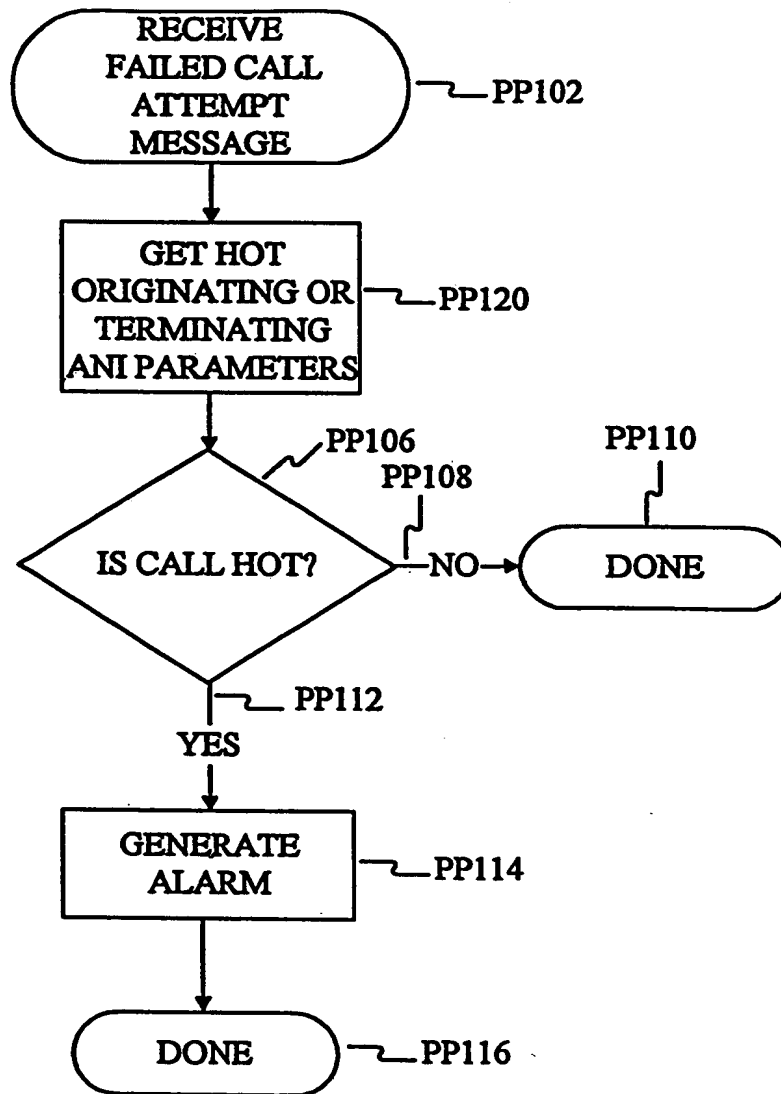


FIG 182

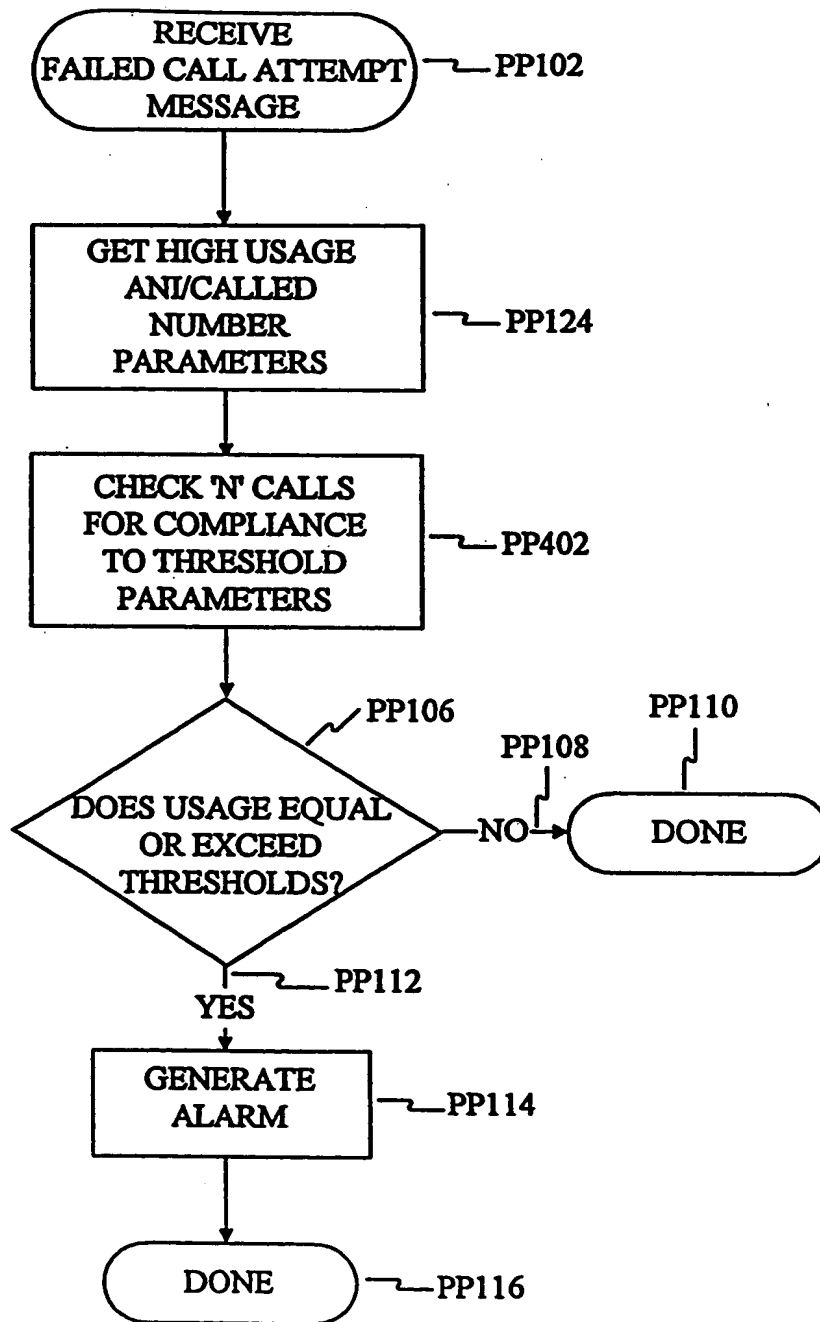


FIG 183



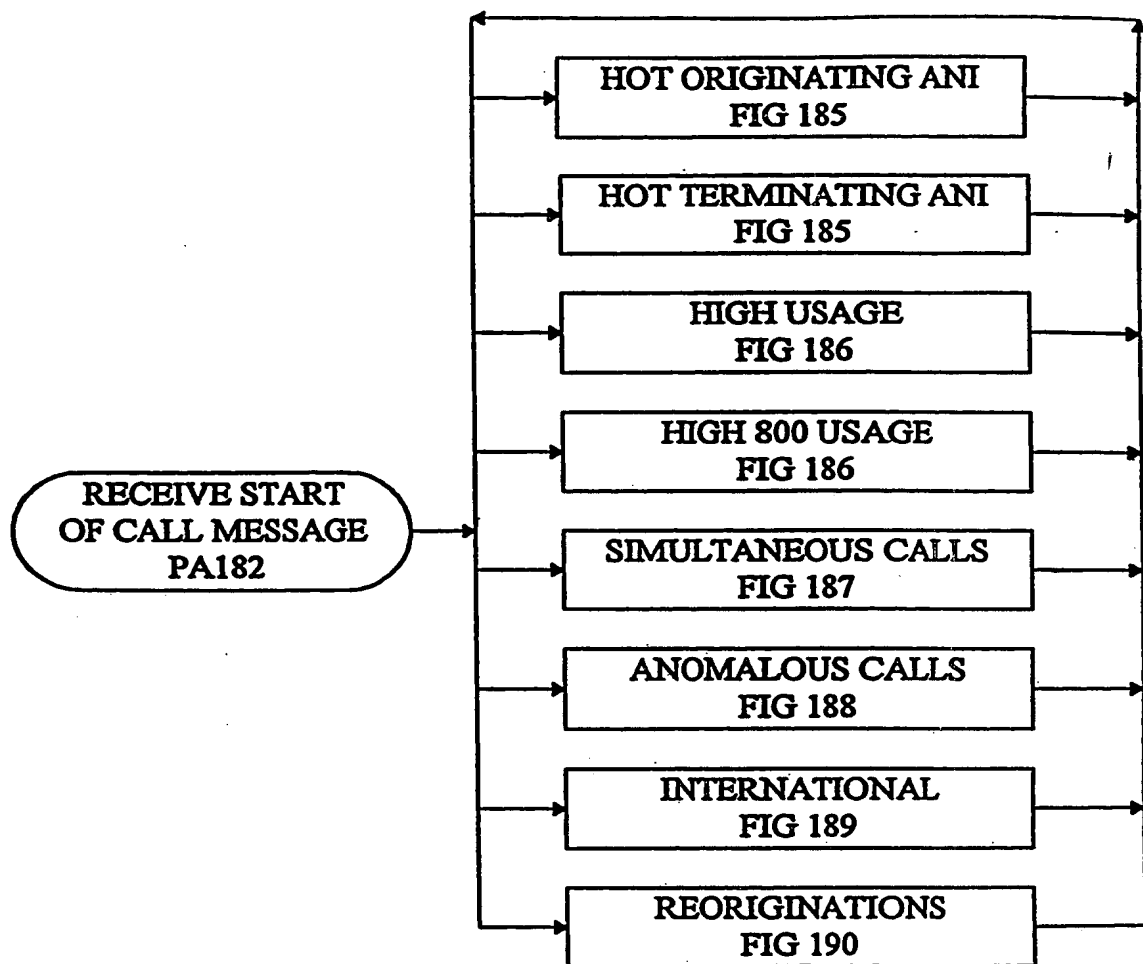


FIG 184

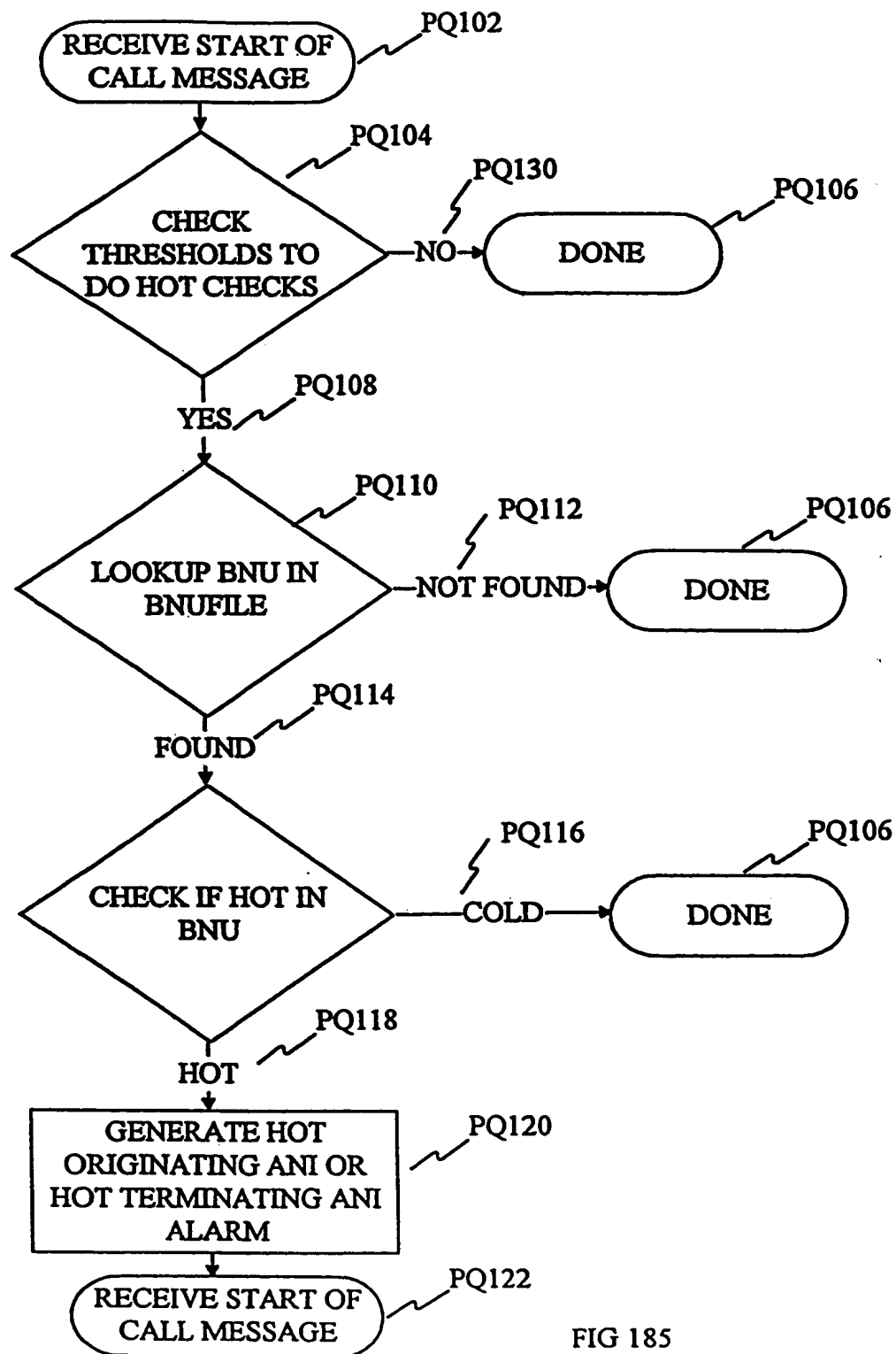


FIG 185

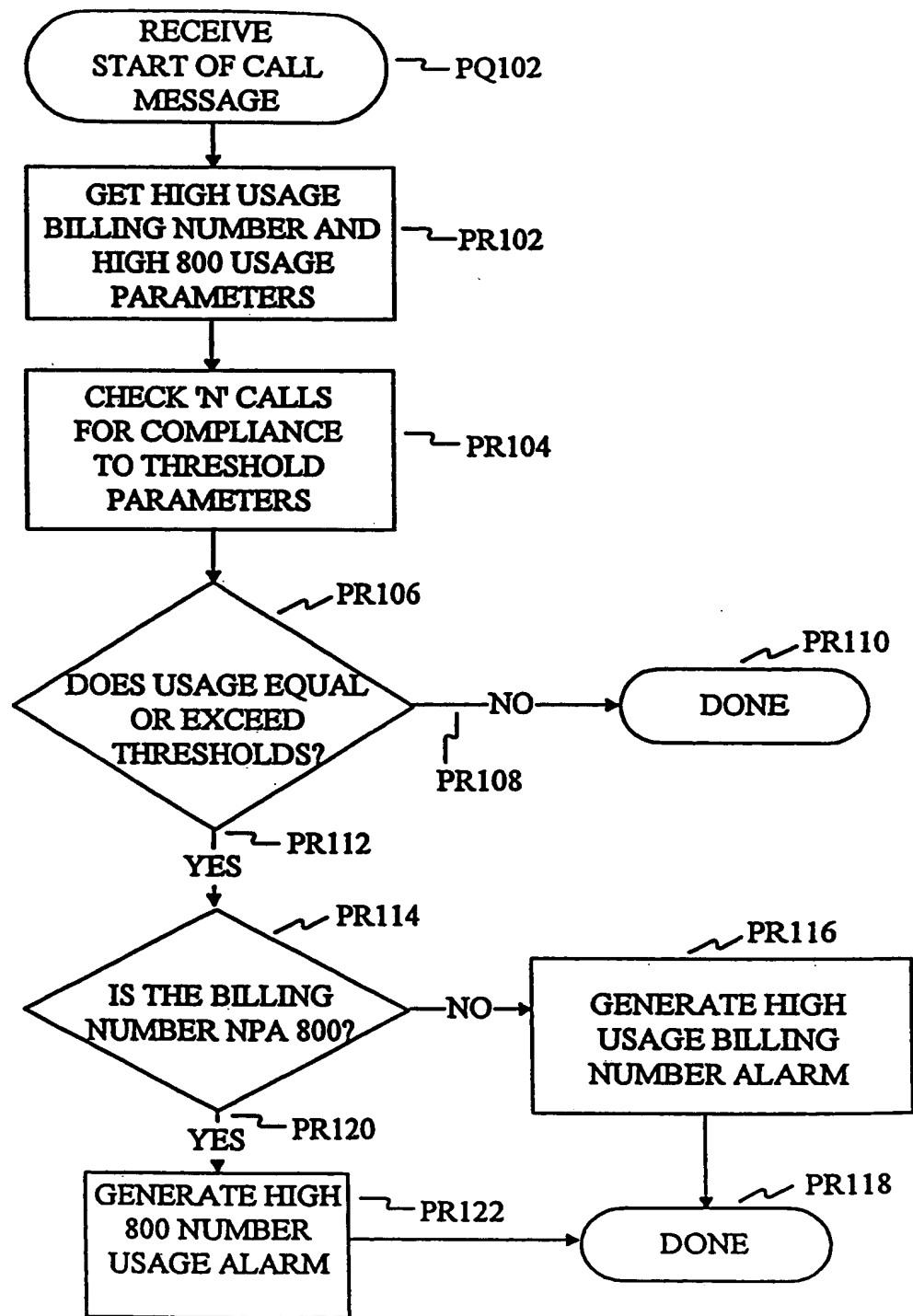


FIG 186

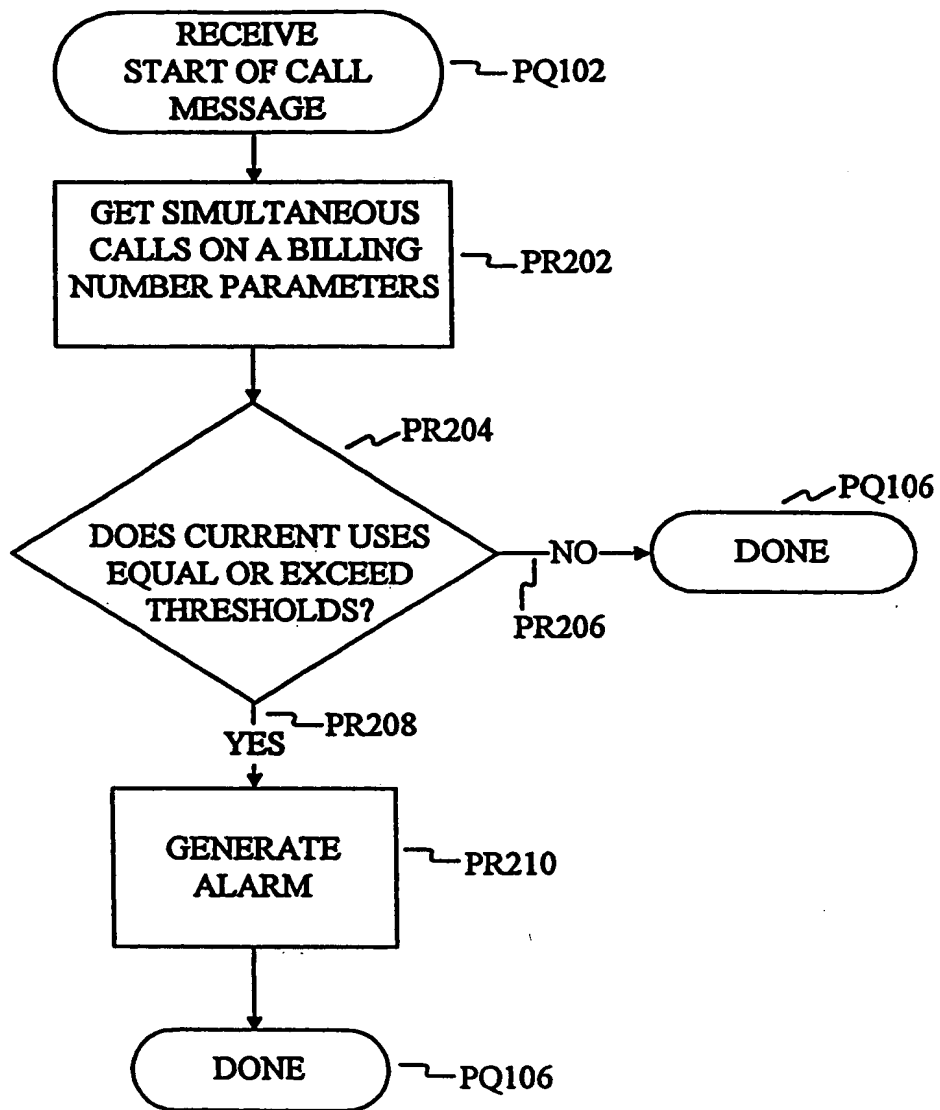


FIG 187

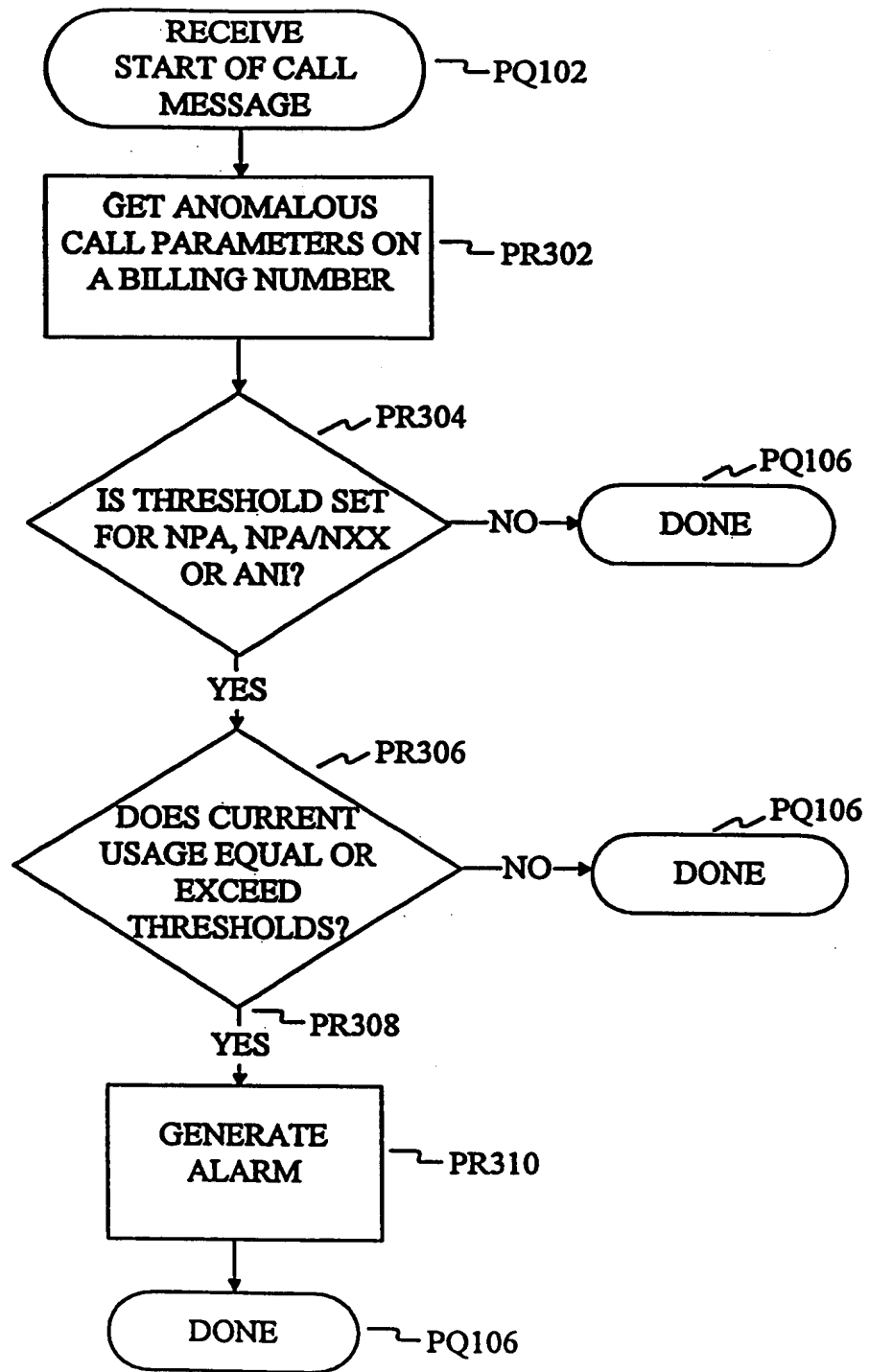


FIG 188

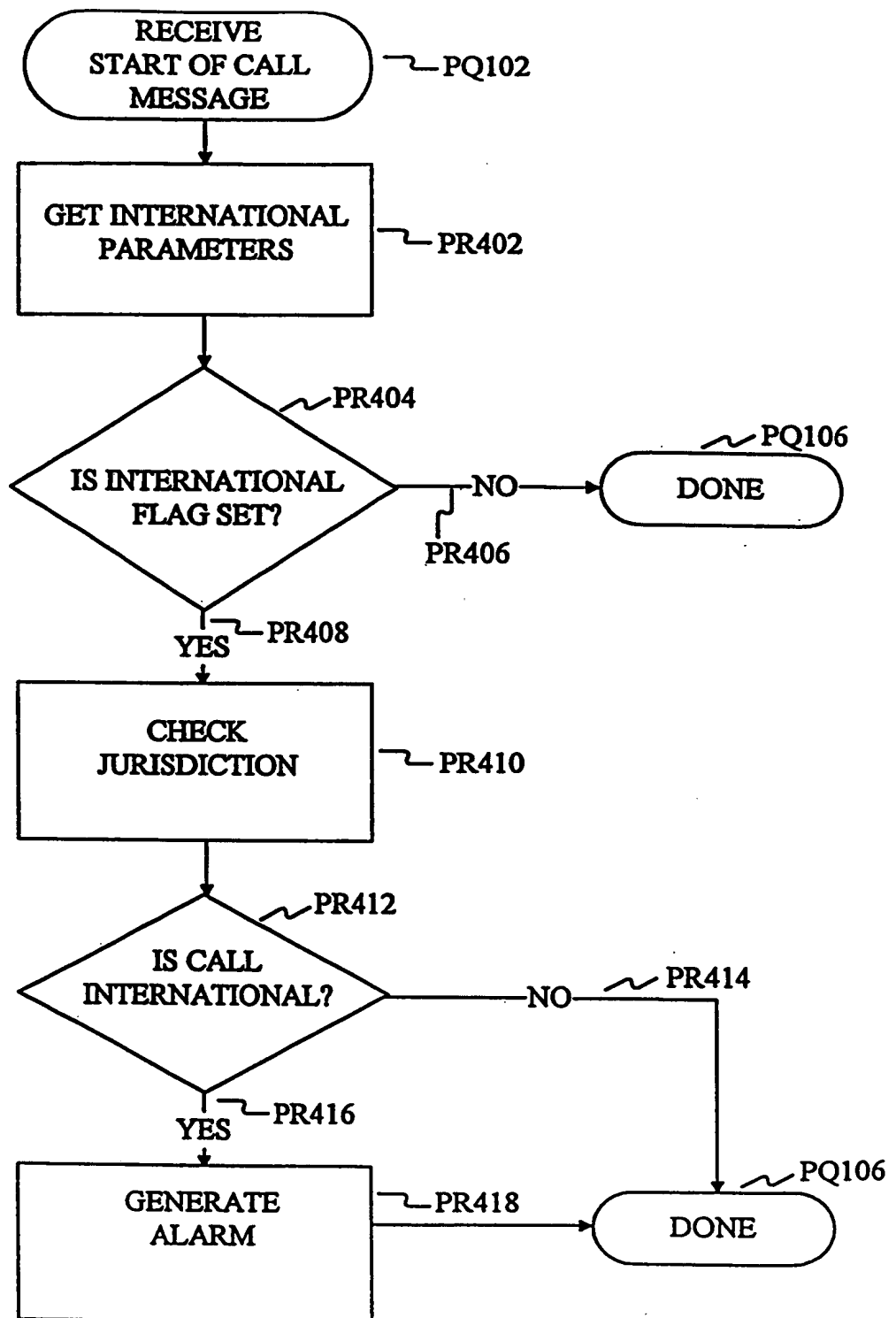


FIG 189

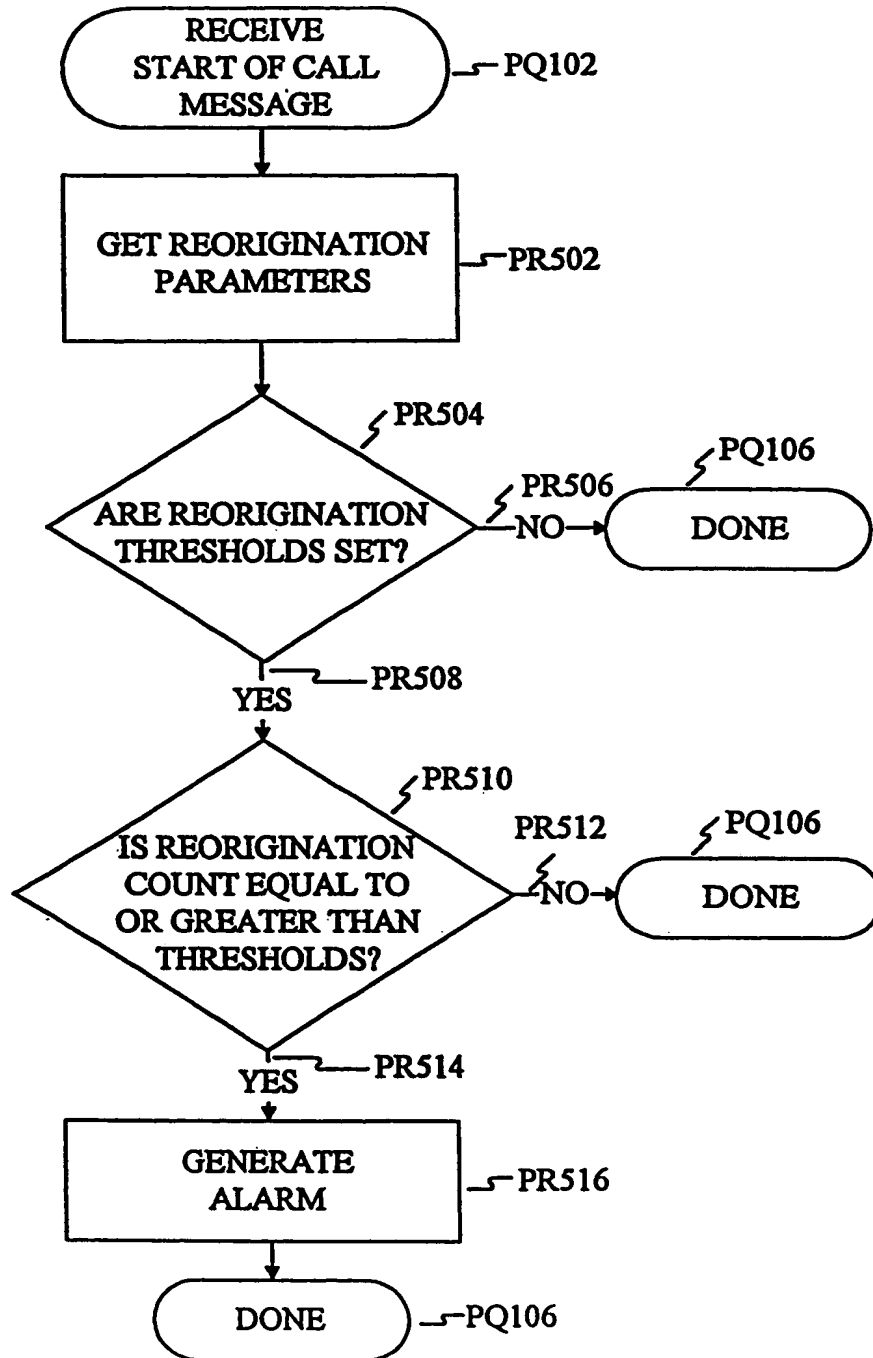


FIG 190

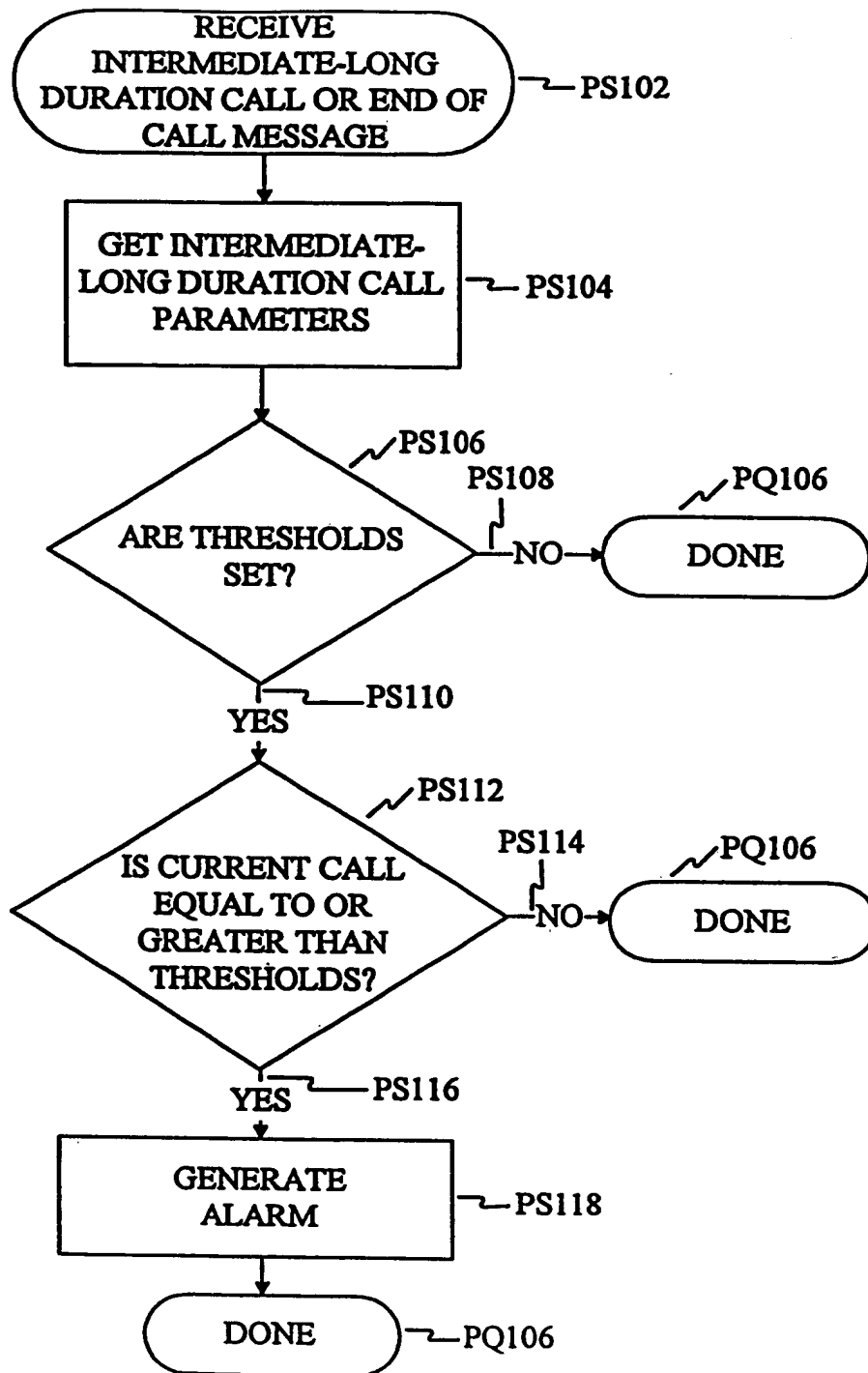


FIG 191



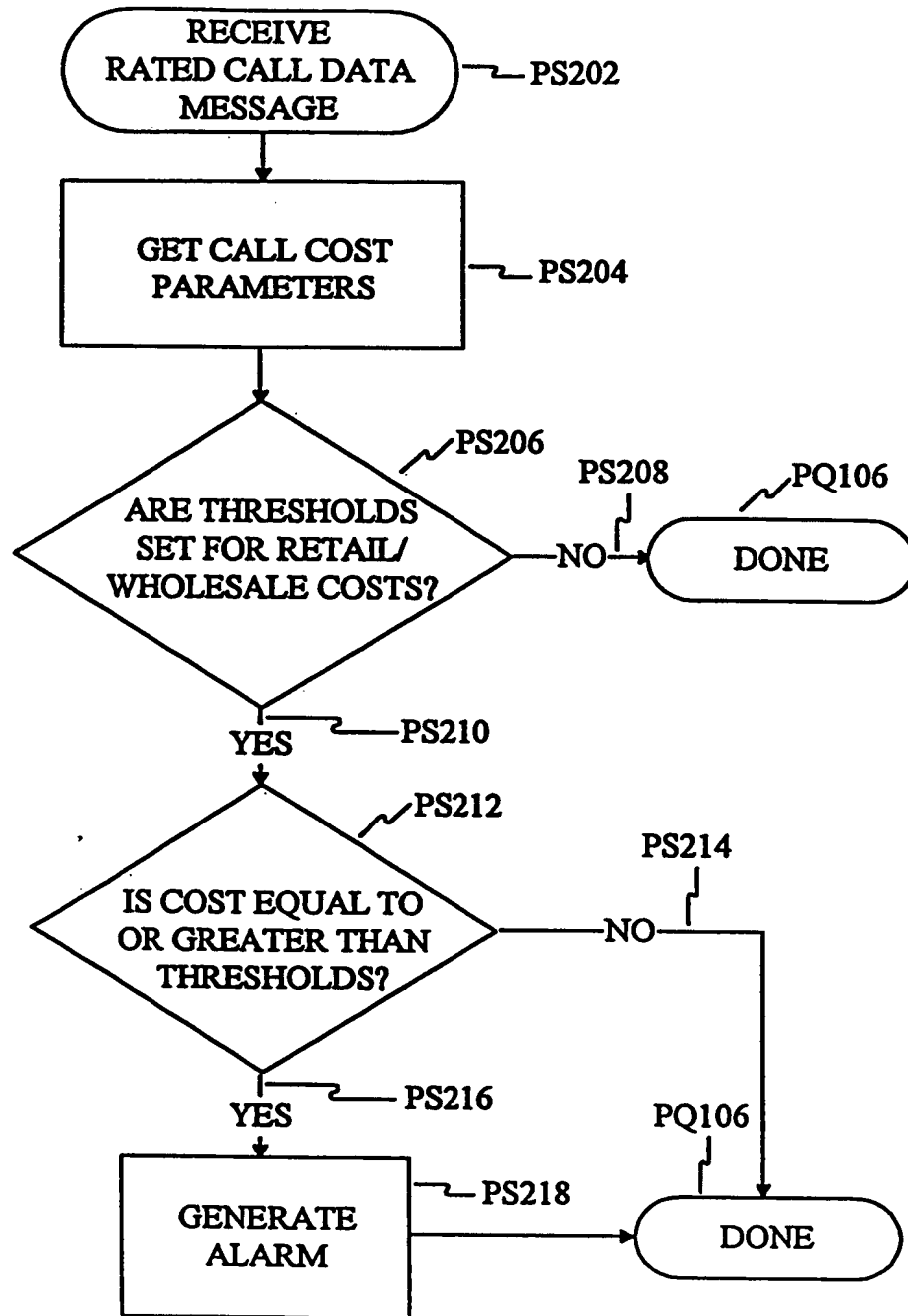


FIG 192

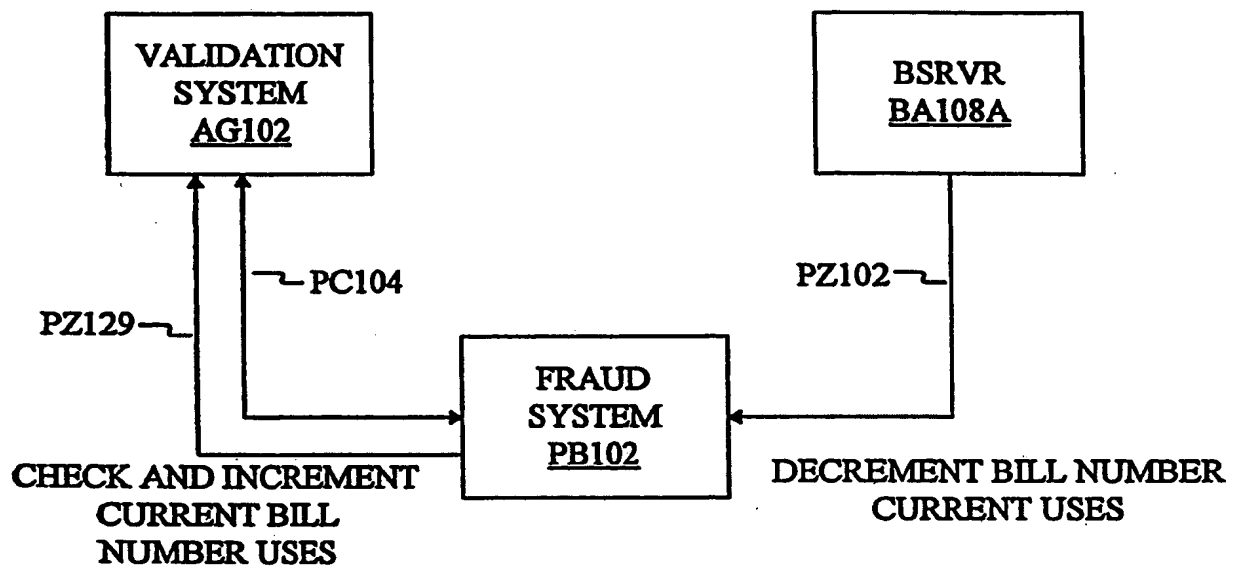


FIG 193

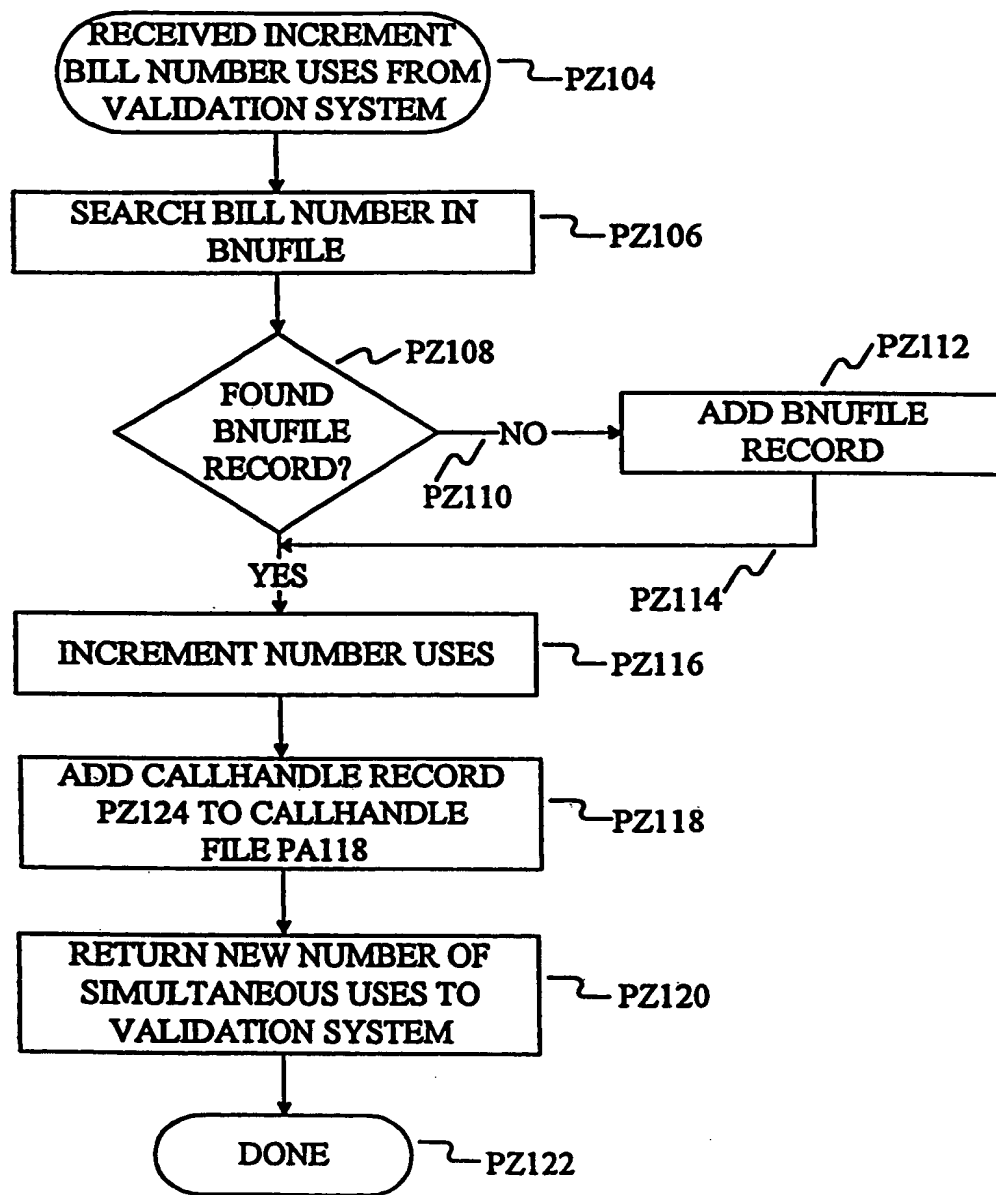


FIG 194

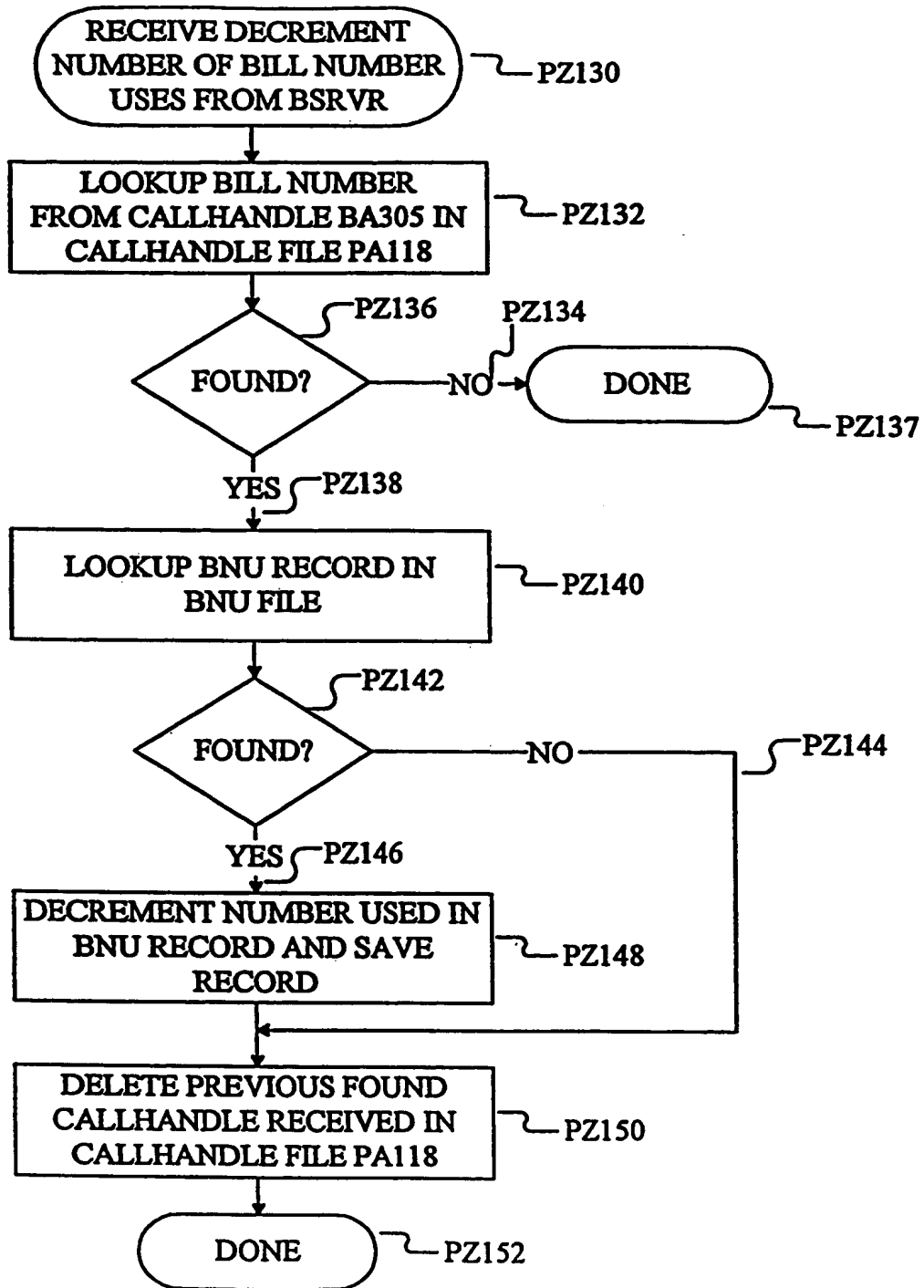


FIG 195

ALARM THRESHOLDS DETAIL INFO		
THRESHOLDS KEY 0		
TEXT DESCRIPTION:	ALARMS WILL BE GENERATED IF:	ALARMS DURMS TONES FREQHZ
0	OR MORE BILLING NUMBER HITS IN 0 MIN	0 0
0	OR MORE BILLING NUMBER HITS IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF ANI IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF NXX IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF NPA IN 0 MIN	0 0
0	OR MORE CURRENT ACTIVE CALLS WITH SAME BILLING NUMBER	0 0
	COMPLETED CALL EXCEEDED 0 MIN	0 0
[ ]	CALL IS INTERNATIONAL	0 0
[ ]	CURRENT ACTIVE CALL EXCEEDS BILLING SERVER WARNING LEVEL	0 0
	COMPLETED CALL EXCEEDED WHOLESALE COST OF DOLLARS	0 0
	COMPLETED CALL EXCEEDED RETAIL COST OF DOLLARS	0 0
	REORIGINATIONS MADE EXCEEDED 0	0 0
[ ]	ORIGINATING ANI IS HOT	0 0
[ ]	CALLED NUMBER IS HOT	0 0
[F1 INSERT]	[F2 SEARCH]	[F3 DELETE] [ESC CANCEL]

FIG 196

ALARM THRESHOLDS DETAIL INFO				
THRESHOLDS KEY 0				
TEXT DESCRIPTION:			ALARMS DURMS	TONES FRQHZ
ALARMS WILL BE GENERATED IF:				
0	OR MORE FBNS ON ORIG NUMBER IN	0	MIN	0
0	OR MORE FBNS ON ORIG NUMBER IN	0	MIN	0
0	OR MORE FBNS ON TERM NUMBER IN	0	MIN	0
0	OR MORE FBNS ON TERM NUMBER IN	0	MIN	0
[ ]	ORIG NUMBER IS HOT			0
[ ]	TERM NUMBER IS HOT			0
[F1 INSERT]	[F2 SEARCH]	[F3 DELETE]	[ESC CANCEL]	

FIG 196A

**BILLING NUMBER DETAIL INFO**

**BILLING METHOD: 800 NUMBER**

**BILLING NUMBER:**

**THRESHOLDS KEY: 0**

**[ ] DON'T USE GLOBAL DEFAULT THRESHS**

**CURRENT USES:**

**[F1 INSERT] [F2 SEARCH] [F3 DELETE] [ESC CANCEL]**

**FIG 197**

[F1] SEARCH BIRS FROM TIME	06/15/93	15:00:00
[F2] SEARCH BIRS FROM BIRID	0	
BIRID	LINK CONNECT TIME	
[ESC CANCEL]		

FIG 198





TIME		TUE JUNE 15 09:56:01		FRAUD MONITOR		VER 01.01	
		BNU ALARM STATUS		LOGGED IN		TOT RCVD 23551	
ALARM DETAIL INFO							
ALARM TYPE:		FRAUD SHORT BIR INFO		JUN 14 21:25:33			
BILL METHOD:		BIRID		402666445		0	
BILLING NUM:		LINKUSA CONNECT TIME		6/14 20:46:22			
39 MIN EXCEEDI		CALL DURATION		0:39:18		BIRID: [402666445]	
		BILL METHOD		ESC			
		BILL NUMBER		1111111			
		ORIGINATING ANI		2014551111			
		CALLED NUMBER		7125551111		[BNU THRS]	
		ACCESS NUMBER		8008641486			
		CALL JUR		INTERSTATE INTERLATA			
		CONSOLE NUMBER		1111			
[BNU ALRMS] [B		REORIGINATIONS MADE		5			
ALARM TYPE		GREENWICH MIN OFFSET		300			
FBN ORIG USAGE		DAYLIGHT OBSERVED		YES			
FAILED BILL NU		WHOLESALE COST		5.85			
FNB HOT TERM		RETAIL COST		6.30			
FNB HOT ORIG		THEIR CONNECT TIME		6:14 21:46:38		UTE:OFF]=[EXIT]=	
=[FBN ALRMS]=[		CALL ACTIVE		NO			
		<ESC>		CANCEL			

FIG 200

ALARM DETAIL INFO

ALARM TYPE: CALL DURATION ALARM TIME JUN 14 21:25:33  
BILL METHOD: ESC THRESHS KEY 0  
BILLING NUM: 8008614851234567  
39 MIN EXCEEDING THRESH OF 30 MIN BIRID: [402666445]

<ESC> CANCEL

FIG 201

FRAUD SHORT BIR INFO	
BIRID	402666445
LINKUSA CONNECT TIME	6/1420:46:22
CALL DURATION	0:39:18
BILL METHOD	PCC
BILL NUMBER	111111
ORIGINATING ANI	2014551111
CALLED NUMBER	7125551111
ACCESS NUMBER	8008641486
CALL JUR	INTERSTATE INTERLATA
CONSOLE NUMBER	1111
REORIGINATIONS MADE	5
GREENWICH MIN OFFSET	300
DAYLIGHT OBSERVED	YES
WHOLESALE COST	585
RETAIL COST	630
THEIR CONNECT TIME	6/14 21:46:38
CALL ACTIVE	NO
<ESC> CANCEL	

FIG 202

FRAUD MONITOR
VER 01.01

TIME TUE JUNE 15 09:56:01 BNU ALARM STATUS LOGGED IN TOT RCVD 23551  
DURATION 1 DAYS 01:45:18 FBN ALARM STATUS LOGGED IN TOT SENT 23475  
BILLED NUMBER USAGE ALARMS

ALARM TYPE	TIME	BILLNUM TYPE	BILLING NUMBER
OPEN SIM	19:46:33	800 NUMBER	7005555465
BILLNUM USAGE	19:47:22	LEC CARD	31936312341234
CALL DURATION	19:47:24	LEC CARD	31936598769876
ORIG NPA	19:48:22	PCC	80086414851234567
INTERNATIONAL	19:48:33	PCC	80086414851234567
OPEN SIM	19:48:34	PCC	80086414851234567

[BNU ALRMS] [BIRS]==FAILED BILLED NUMBER ALARMS==[BILLNUMS] [BNUTHRS]

ALARM TYPE	TIME	NUMBER TYPE	NUMBER
FBN ORIG USAGE	00:28:00	ORIG ANI	3193651234
FAILED BILL NUM	00:29:30	ORIG ANI	3193651234
FNB HOT TERM	00:30:00	TERM NUM	7083331111
FNB HOT ORIG	00:31:00	ORIG ANI	3192222222

=[FBN ALRMS]=[FBNS]=[FBN NUMS]=[FBN THRS]=[REPORTS]=[MUTE OFF]=[EXIT]=

FIG 203

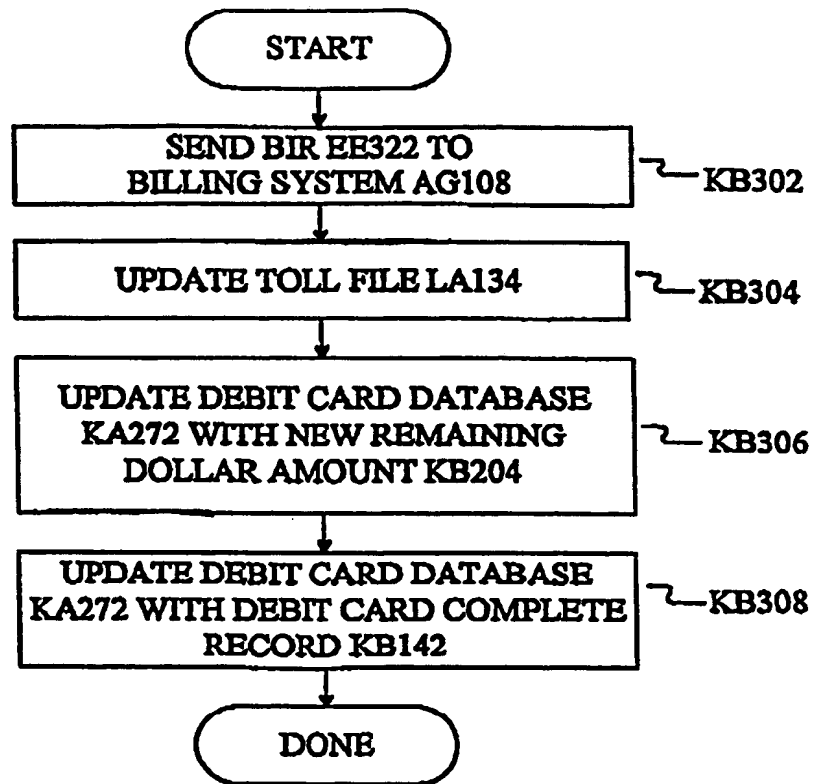


FIG 204

↓ VA100

LINKUSA					07:21:42 AM
MARK	JIM MOORE		WAIT		
SCRIPT			ORIG		
<u>VA102</u>			<u>VA104</u>		
INFO			TERM		
<u>VA106</u>			<u>VA108</u>		
<F1>	<F2>	<F3>	<u>VA114</u>		
					<F9>

FIG 205

MARK		LINKUSA		JIM MOORE		LIVE		07:22:29 AM							
SCRIPT MAY I HAVE THE AREA CODE AND NUMBER YOU ARE CALLING?				ORIG DURATION 00:00:20 LOCATION DIR ASST, IA LOC TIME 07:22:01 CARRIER ABC SERVICES NAME MARY SMITH PHONE 3193637570 CITY PERKINS, IA VA104											
VA102 INFO CALL TYPE: LINKUSA ESC BILLING NUMBER: 1234567 CALLED NUMBER:				NAME PHONE CITY TIME DURATION VA108											
VA106															
<F1 HELP>				<F2 LOGOUT>		<F3 MUTE>		<F4 FEATURE>		<F8 TRANSFER>		<F9 NOTE>		<F11 UTILITY>	
VA114															

FIG 206



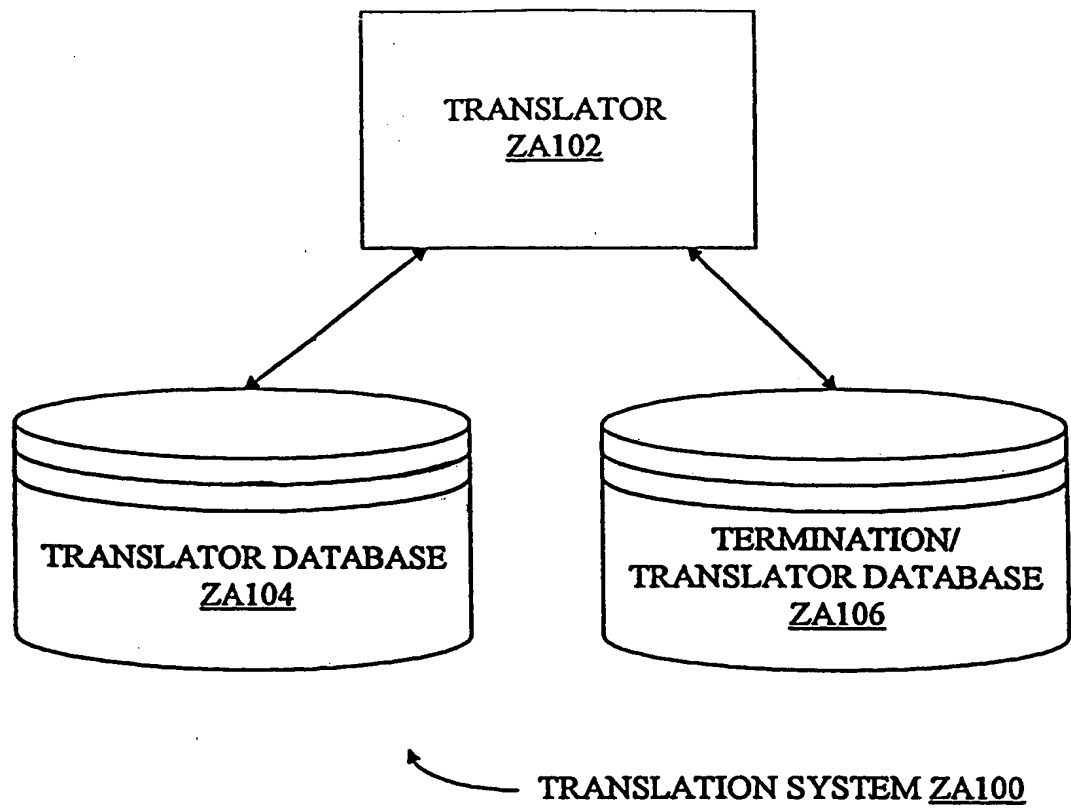


FIG 207